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Event Brochures and reports professional development training programmes/administrative training programmes organized for Teaching Staff & Non-

teaching Staff

Index

Sl.No.	Particulas	Page No.			
	2016-17	-			
	2016-17 Event Brochures and reports on professional developmenttraining program	mes			
-		3 - 9			
-	organized by the Institution for Teaching Starr 3-day workshop on Renewable Energy and Grid integration Challenges and	2-5			
а.	3-day workshop on henerouse an or	and by the			
	Issues Event Brochures and reports on administrative training programmes organi	zeu by the			
Ζ,	nstitution for Non-Teaching/Technical Staff	9 - 10			
	MS Office Training	11-14			
a.	Housekeeping Awareness Program	11-14			
b.		mat			
	Event Brochures and reports on professional developmenttraining program	mes			
3.	organized by the Institution for Teaching Staff	15 - 20			
a.	Internet of Things Two days FDP on know your Intellectual Property Rights in association with	21 - 22			
b.	bot Dipulac Coupernment of India, ISUSI dilu VIO, Rathered	22 20			
	Workshop on Genomic Informatics sponsored by Bionivid Pvt. Ltd.,	23 - 30			
C.,		21. 22			
	Bengaluru Binding affinity and ADMET in drug discovery and candidate selection	31 - 32			
d.	AICTE Sponsored FDP on World Class new product design and	33 - 68			
е.					
	manufacturing. Event Brochures and reports on administrative training programmes organ	nized by th			
4.	Event Brochures and reports on administration Institution for Non-Teaching/Technical Staff				
	Institution for Non-Teaching/Teaching/Teaching	69 - 70			
а.	Typing Skills-Learn typing with shortcut keys	71 - 74			
b.	Hygiene, Quality and Cleanliness in Mess and Canteen 2018-19				
	Event Brochures and reports on professional developmenttraining program	mmes			
5.	Event Brochures and reports on protesting Staff organized by the Institution for Teaching Staff				
	organized by the institution for redening of	75 - 79			
a.	Python and Machine Learning	80 - 83			
b.	Workshop on Mentor Graphics & Xilinx (ECE)	nized by t			
6.	Workshop on Mentor Graphics & XiinX (ECC) Event Brochures and reports on administrative training programmes organized by th				
	Institution for Non-Teaching/Technical Staff	84 - 89			
а.	Time Management Skills	90 - 8			
b.	Electrician, plumber & gardener awareness Discipline awareness program for college security people	93			
	bi visiting awareness program for college security people				

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	CHILDREN'S EDUCATION SUCIETY (Kega.) THE OXFORD COLLEGE OF ENGINEERING (Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological Univer Approved by ALCITE New Delhi. Recognised by UGC Under Section 2(7) Bornsmanahali, Hosur Road, Bangalore - 560 068. Ph: 080-61754601/602, Fax: 080 - 25730551 E-mail: engprincipal@theckford.edu Web: www.theckford.engg.org	
-	2019-20	
7.	Event Brochures and reports on professional developmenttraining program	lines
	organized by the Institution for Teaching Staff	94 - 95
a.	Python Programming	
8.	Event Brochures and reports on administrative training programmes organ	nized by
	the Institution for Non-Teaching/Technical Staff	05 07
a.	Balancing personal and Professional life	96 - 97
b.	Training in Internet surfing	98 - 99
	2020-21	
9.	Event Brochures and reports on professional developmenttraining program	nmes
	organized by the Institution for Teaching Staff	
a.	Advances in Artificial Intelligence and Machine Learning	100 - 124
b,	Advancements in Artificial Intelligence and Machine Learning	125 - 126
с.	FDP on Recent Trends in Photonics	127 - 152
d.	FDP on Recent Trends in Electrical Engineering	151 - 185
e.	Two weeks Faculty Development Program Phase 1 titled "Bioinnovation,	186 - 198
	Patenting and Entrepreneurship Opportunities in Biotechnology for Sustainable Environment"	
f.	Two weeks FDP Phase 2 on Bio innovation, Patenting and	199 - 232
	Entrepreneurship Opportunities in Biotechnology for Sustainable Environment	
g.	Short term training program (STTP-1) on Recent Trends and Challenges for NPD	233 - 255
h.	Short term training program (STTP-2) on Recent Trends and Challenges for NPD	256 - 277
i.	Short term training program (STTP-3) on Recent Trends and Challenges for NPD	278 - 283
10.	Event Brochures and reports on administrative training programmes organ	nized by the
	Institution for Non-Teaching/Technical Staff	-
a.	Communication Skill Training	284 - 285
b.	Sanitization of Surroundings during Covid Pandemic for attenders and Sweepers	286 - 288
	pricepcity	

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2016-17

3-day workshop on Renewable Energy and Grid integration Challenges and Issues



## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING THE OXFORD COLLEGE OF ENGINEERING

Hosur Road, Bommanahalli, Bengaluru-560 068 Website:www.theoxford.edu Email : enghodeee@theoxford.edu (Approved by AICTE, New Delhi, Accredited by NBA, NAAC New Delhi & Affiliated to VTU, Belgaum)

Three Day Workshop on

# \*RENEWABLE ENERGY & GRID INTEGRATION CHALLENGES AND ISSUES"

## 20<sup>th</sup> April 2017 to 22<sup>nd</sup> April 2017



Organized By DEPARTMENT OF EEE , In Association with ISTE Students Chapter THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Road, Bangalore-560068



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#### **General information**

### "Vidya Sarvatra Shobhate"

The Oxford Group of Educational Institutions Established in the year 1974 under the aegis of Children's Education Society (Regd.) has proved a beckon to knowledge seeker not only all over the country but also all over the world. It made a humble beginning with 24 students and 2 teachers, but during the last four decades, The Oxford Group has seen an immense growth of establishing Medical, Engineering, Dental Institutions under the great guidance and leadership of Sri S Narasa Raju (Late) and Sri S.N.V.L NarasimhaRaju.

Today, The Oxford Group of Institutions has 32 Institutes with more than 18,000 students and 2,500 faculties, in more than 85 academic streams from Pre-Nursery to Post-Graduate & Doctoral courses including Medical Science, Dentistry, Nursing, Pharmacy, Physiotherapy, Engineering, Computer Education, Management, Life Sciences and Law. Within an intensely competitive and disciplined environment, the schools and colleges have adopted a dynamic, global, high quality, creative and communicative approach in education as well as research and development. Keeping abreast with modern Technologies & developments, the Institutions are constantly restructuring the infrastructure as well as its laboratory facilities, research, consultancy and education/training facilities to meet the global challenges.

#### About EEE Department :

The Department of Electrical and Electronics Engineering, was started in the year 2001. It offers one Under-Graduate programme (B.E.), two Post-Graduate programmes (M.Tech. in Power Electronics, Computer Applications in Industrial Drives) and also research programmes ( Ph.D.) in the various fields of Electrical and Electronics Engineering, the department has grown not only in terms of student and faculty strength, but also in improving the laboratory facilities for the teaching and research purposes. Thus, the department has dedicated and state of the art teaching / research laboratories. The department is reaccreditated by NBA for three years from 2015-2018. The faculty members have strong sense of responsibility to provide the finest possible education for both graduate and undergraduate students. The academic strength of the faculty is reflected by the alumni, many of whom are in the top echelons of industry and academia both in India and abroad.

Grid connected solar power generation is an new concept in the country. Very few grid connected solar PV power plants have been set up.

Experienced man power to design, construct, manage and maintain grid connected solar power plants is not available in country.

Training and education including Hands on training and workshops are aspects is necessary to be imparted.

This workshop program is set up jointly by the Oxford College of Engineering (EEE dept) with an objective to fulfill the need for trained man power in Grid connected power plants.

#### **Objective:**

The objective of this program is to build man power capability at technical and operation level for grid connected solar power generation, through training, education and Hands on Workshops at operational solar PV grid connected plant to generate trained and qualified man power.

#### Target Audience :

- UG and PG students
- Faculty members who are doing research on solar (PV), wind domain.
- Speakers:

Dr. H. NAGANAGOUDA Director, National Training centre for solar technology, KPCL.

Mr. M.K. NARAYAN Rtd. General Manager, Exide Batteries.

Mr. SHYAM SUNDAR Country head, studer inverters,

### Course overview:

- An overview of Renewable energy (RE) forms.
- × Site selection and system design
- > Inverters, charge controllers, battery banks
- Sizing of solar systems
- Installation, commissioning, operation and Þ maintenance standards
- Safety in installation and commissioning
- Quality management, grid connectivity
- On site visit to solar PV module and Hydro power Þ plant

#### Workshop Fees

UG & PG Students : 750/- INR :1000/-INR Faculty Members

#### Chief Patron:

Shri, S.N.V.L.Narashimha Raju President-CES The Oxford Group of Institutions

#### Chief Convenors :

1. Dr. R.V.Praveena Gowda Principal-TOCE

2. Dr. R.J.Anandhi Vice Principal-TOCE

#### Co-ordinators:

- 1. Prof. Deepa. R
- 2. Prof. Swapna . M
- 3. Prof. Thiruvona Sundari .D
- 4. Ms. Chandrakala K N (PG Student Co-ordinator)

#### **Contact Details:**

Jayakumar .N Assoc. Prof/EEE TOCE, Bangalore-68. 8050837275 E-mail: enghodeee@theoxford.edu



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Children's Education Society®

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#### With Gracious Blessings from

(Late )Shri.S.NarasaRaju Founder Chairman

Children's Education Society, Bangalore Shri. S.N.V.L. NarasimhaRaju The Chairman Children's Education Society, Bangalore

#### **Department of Electrical & Electronics Engineering**

Cordially invite you for the

Inauguration of

Three Day Workshop

on

<u>"RENEWABLE ENERGY & GRID INTEGRATION</u> CHALLENGES AND ISSUES"

Chief Guest : Dr. H. Naganagouda, Director, National Training Centre for Solar Technology, KPCL

On 20th April 2017(Thursday) at 10.00 A.M

Venue : - New Building, IV Floor- SEMINAR HALL

Presided by Dr.R.V.Praveena Gowda

Principal, TOCE

Students & Faculty members-EEE

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#### THREE DAY WORKSHOP ON

"RENEWABLE ENERGY & GRID INTEGRATION CHALLENGES AND ISSUES"

### 20<sup>TH</sup> APRIL TO 22<sup>ND</sup> APRIL 2017

## Venue : NEW BUILDING IV FLOOR SEMINAR HALL ( ISE)

	Thuises	Subjects to be covered	Name of the Resource Person	
Day & Date	Timings9.00 to 9.45am	Registration		
	9.45 to 10.45am	Inauguration		
	10.45 To 11.00am	Tea Break		
	11.00 to 1.00 pm	<u>Technical Session 1</u> An overview of energy, RE sources		
Dayl 20/4/2017	1.00 to 1.45 pm	Lunch Break		
	1.45 to 2.45 pm	<u>Technical Session 2</u> Design of roof top solar power plant system grid connected with net metering	Dr.H.NAGANAGOUDA Contact No: 08748899429 Email: hnaganagouda@gmail.co	
	2.45 to 3.00 pm	Tea Break		
	3.00 to 4.00 pm	<u>Technical session 3</u> Design of solar grid connected power plant systems		
Day2 21/4/2017		Site visit to Solar 5 MW & 10 M	W Power Plant	
	9.15 to 10.45am	<u>Technical Session 1</u> Batteries & its applications Tea Break	Mr. M.K.NARAYAN	
	10.45 to 11.00am	Continuation	0045400204	
	41 00 to 1 00 pm	Lunch Break	Contact No:9845499294	
	11.00 to 1.00 pm			
Day3	1.00 to 1.45 pm	Lunch Dreak	Email id: <u>narayanbg@yahoo.con</u>	
Day3 22/4/2017	1.00 to 1.45 pm 1.45 to 2.45 pm	<u>Technical Session 2</u> Fundamentals of inverters, types, design/Sizing of inverter charge controller	Mr. SHYAM SUNDAR Contact No: 994580111 Email id: shyam.sundar@studer	
Day3 22/4/2017	1.00 to 1.45 pm	<u>Technical Session 2</u> Fundamentals of inverters, types, design/Sizing of inverter	Mr. SHYAM SUNDAR	



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KARNATAKA POWER CORPORATION LTD., (A premier power generating company of Government of Karnataka) CIN U85110KA1970SGC001919

20-04-2017

ಸಂಖ್ಯೆ: ಎ1 ಎ6 ಎ ಸಿಸಿ:28 | 160 ಇವರಿಗೆ: ಮ್ರೋಫೆಸರ್ & ಹೆಚ್.ಒ.ಡಿ, ದಿ ಆಕ್ಸ್ ಫರ್ಡ್ ಕಾಲೇಜ್ ಆಫ್ ಇಂಜಿನೀಯರಿಂಗ್ ಬೊಮ್ಮನಹಳ್ಳಿ, ಹೊಸೂರು ರಸ್ತೆ, ಬೆಂಗಳೂರು–560 068 ಮೊಬೈಲ್:80506 28377

AEE(E)

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ಮಾನ್ಯರೆ.

ವಿಷಯ: ಶಿವಸಮು ಪ್ರಂ (ಬ್ಲಫ್)ನಲ್ಲಿರುವ ಸೋಲಾರ್ ಪೋಟೋ ವೋಲ್ಬಾಯಿಕ್ ಪ್ಲಾಂಟನ್ನು ಸಂದರ್ಶಿಸಲು ಅನುಮತಿ – ಕುರಿತು.

ಉಲ್ಲೇಖ. ನಿಮ್ಮ ವಕ್ತ ಸಂಖ್ಯೆ TOCE/EEE/2017-18 ದಿನಾಂಕ:18.04.2017.

ಯೋಜನಾ ಪ್ರದೇಶಗಳನ್ನು ಸಂದರ್ಶಿಸಲು ತಾವು ಬರೆದುಕೊಂಡ ಉಲ್ಲೇಖ ಪತ್ರದಲ್ಲಿ ತಿಳಿಸಿರುವಂತೆ. ಮಂಡ್ಯ ಜಿಲ್ಲೆಯ ಮಳವಳ್ಳಿ ತಾಲ್ಲೂಕಿನ ಶಿವಸಮುದ್ರಂ (ಬ್ಲಫ್)ನಲ್ಲಿರುವ ಸೋಲಾರ್ ಪೋಟೋ ವೋಲ್ಪಾಯಿಕ್ ಪ್ಲಾಂಟನ್ನು ಸಂದರ್ಶಿಸಲು ದಿನಾಂಕ:21.04.2017ರಂದು ನಿಮ್ಮ ಕಾಲೇಜಿನ ಅಂತಿಮ ವರ್ಷದ ಬಿ.ಇ. ಎಲೆಕ್ಟ್ರಿಕಲ್ & ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ವಿಭಾಗದ 95 ವಿದ್ಯಾರ್ಥಿಗಳು ಹಾಗೂ ನಾಲ್ವರು ಉಪನ್ಯಾಸಕರು/ಸಿಬ್ಬಂಧಿ ಸೇರಿ ಒಟ್ಟು ತೊಂಬತ್ತೊಂಬತ್ತು ಸದಸ್ಯರಿಗೆ ವೀಕ್ಷಿಸಲು ಈ ಮೂಲಕ ಅನುಮತಿ ನೀಡಲಾಗಿದೆ. (ಜಲವಿದ್ಯುತ್ ಉತ್ತಾದನಾ ಕೇಂದ್ರಕ್ಕೆ ತಾಂತ್ರಿಕ ಕಾರಣದಿಂದ ಅನುಮತಿ ನೀಡಲಾಗುತ್ತಿಲ್ಲ).

ಈ ಅನುಮತಿಯು ಕೆಳಗಿನ ನಿಬಂಧನೆಗಳಿಗೆ ಒಳಪಟ್ಟಿರುತ್ತದೆ. 1) ಸಂಸ್ಥೆಯ ಮುಖ್ಯಸ್ಥರಿಂದ ಪಡೆದಿರುವ ಗುರುತಿನ ಚೀಟಿಯನ್ನು (Identity card) ಹಾಜರು ಪಡಿಸಲು

1) ಸಂಸ್ಥೆಯ ಮುಖ್ಯಸ್ಥರಿ ದಿ ವಿಡದಿಯವ ಗಾರಿಕಾನ ದೀಡಿಯನ್ನು (ಗಡಿಗಿಗಳ) ಕರ್ಷಕ್ರಿ ಹಿಂದರೆ, ಹಿಂದರು ಸೂಚಿಸಲಾಗಿದೆ. ಗುರುತಿನ ನೀಟಿ ಇಲ್ಲದಿದ್ದ ಪಕ್ಷದಲ್ಲಿ ಮುಖ್ಯಸ್ಥರಿಂದ ದೃಢೀಕರಿಸಿರುವ ವಿದ್ಯಾರ್ಥಿಗಳ ಮತ್ತು ಉಪನ್ಯಾಸಕರ ಹೆಸರುಗಳ ಪಟ್ಟಿಯನ್ನು ಕಡ್ಡಾಯವಾಗಿ ಹಾಜರು ಪಡಿಸಲು ಸೂಚಿಸಲಾಗಿದೆ ಹಾಗೂ ಆ ಪಟ್ಟಿಯಲ್ಲಿರುವವರು ಭಾರತೀಯ ಪೌರರೆಂದು ಧೃಢೀಕರಿಸಬೇಕು. ಇಲ್ಲದ ಪಕ್ಷದಲ್ಲಿ ಅನುಮತಿಯನ್ನು ನಿರಾಕರಿಸಲಾಗುವುದು. <u>ವಿದ್ಯೇಖಯರಿಗೆ ಪ್ಲಾಂಟನ್ನು ಸಂದರ್ಶಿಸಲು ಅನುಮತಿ ನೀಡಲಾಗುವುದಿಲ್ಲ.</u>

2)ಯೋಜನಾ ಪ್ರದೇಶದಲ್ಲಿ ುರಾವುದೇ ಸ್ಥಳಗಳನ್ನು ವಿಡಿಯೋ/ಮೊಬೈಲ್/ಕ್ಯಾಮರಗಳಲ್ಲಿ ಸೆರೆಹಿಡಿಯುವುದನ್ನು ನಿಷೇಧಿಸಲಾಗಿದೆ.

ಸಂದರ್ಶಿಸುವ ತಂಡವು ಪ್ರಾಂಟನ್ನು ಪ್ರವೇಶಿಸಿದ ನಂತರ ಭೇಟಿಯ ವ್ಯವಸ್ಥೆಗಾಗಿ ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನೀಯರ್ (ವಿದ್ಯುತ್). ಕೆಪಿಸಿಎಲ್, ಶಿವಸಮುದ್ರಂ ಇವರನ್ನು ಸಂಪರ್ಕಿಸುವುದು. ವಂದನೆಗಳೊಂದಿಗೆ,

ECTOLOY&ODT

ತಮ್ಮ ವಿಶ್ವಾಸಿ, ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ನಿಗಮ ನಿಯಮಿತದ ಪರವಾಗಿ,

A was 2000

ಉಪ ಪ್ರಧಾನ ವ್ಯವಸ್ಥಾಪಕರು(ಕಾರ್ಮೊರೇಟ್ ಕಮ್ಯುನಿಕೇಷನ್ಸ್) ನಿ 6

'ಶಕ್ತಿ ಭವನ', ನಂ. 82, ರೇಸ್ ಕೋರ್ಸ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು–560 001, ದೂರವಾಣಿ : 080-2225 6568 ಫ್ಯಾಕ್ಸ್ : 080-2225 2144 'Shakthi Bhavan', # 82, Race Course Road, Bangalore-560 001. Tel. : 080-2225 6568 Fax : 080-2225 2144 E-mail : kpclcccmpa@karnatakapower.com Website : www.karnatakapower.com



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Date: 21-04-17

TO, KPCL SHIVANASAMUDRA

KARNATAKA

FROM,

HOD, EEE DEPT

THE OXFORD COLLEGE OF ENGINEERING

BANGALORE

Respected Sir,

SUBJECT: Requesting to allow students to visit Solar Photovoltaic power plant

USN:

As per above subject , the Student

Studying in our college in 3rd year BE (EEE DEPT). He/She has lost the College ID card. Please allow him to

visit the plant. Please do the needful and oblige.

Thanking You,

Yours Faithfully,

-14/17 HOD/EEE

Professor & Head, Dept. of ESE The Oxford College of Engineering Bommanahalii, Hosur Road, BANGALORE - 560 068.



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**MS Office Training** 

Date: 05.04.2017

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Hosur Road, Bommanahalli, Bangalore -560068

#### **Department of Electrical & Electronics Engineering**

#### Organizing MS Office Training



Chief Patron Sri S.N.V.LNarasimha Raju President The Oxford Educational Institutions on 5th April 2017

by Dr M S <u>Shashidhara</u> Professor & HOD <u>Dept</u> of MCA The Oxford College of Engineering

Convener

Mr N Jayakumar Professor/EEE The Oxford College of Engineering



Venue :6<sup>th</sup> Floor Seminar Hall Time :10AM

Prof. Nisha C Rani , Prof <u>Resna</u> S R Assistant Professor The Oxford College of Engineering



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Report on MS Office Training

Date: 05.04.2017

The Oxford College of Engineering organized a one-day workshop on **"MS Office Training "** on 05.04.2017 at 5th floor new building.

In the program basic knowledge to know how to use the most common Microsoft Office programs were discussed such as creating documents for printing and sharing, to create and share presentations and to manage and store data in a spreadsheet. There was a discussion and the queries asked by the employees were resolved Dr.M S Shashidhara, HOD Department of MCA The Oxford College of Engineering,

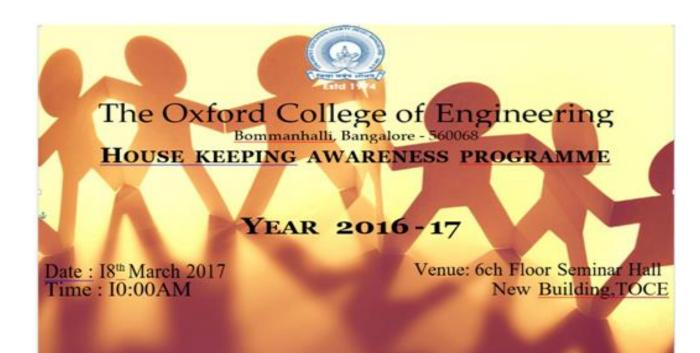
Bengaluru. Discussion Session was quite interesting & helpful to resolve many doubts of the participants.40 participants attended the program.

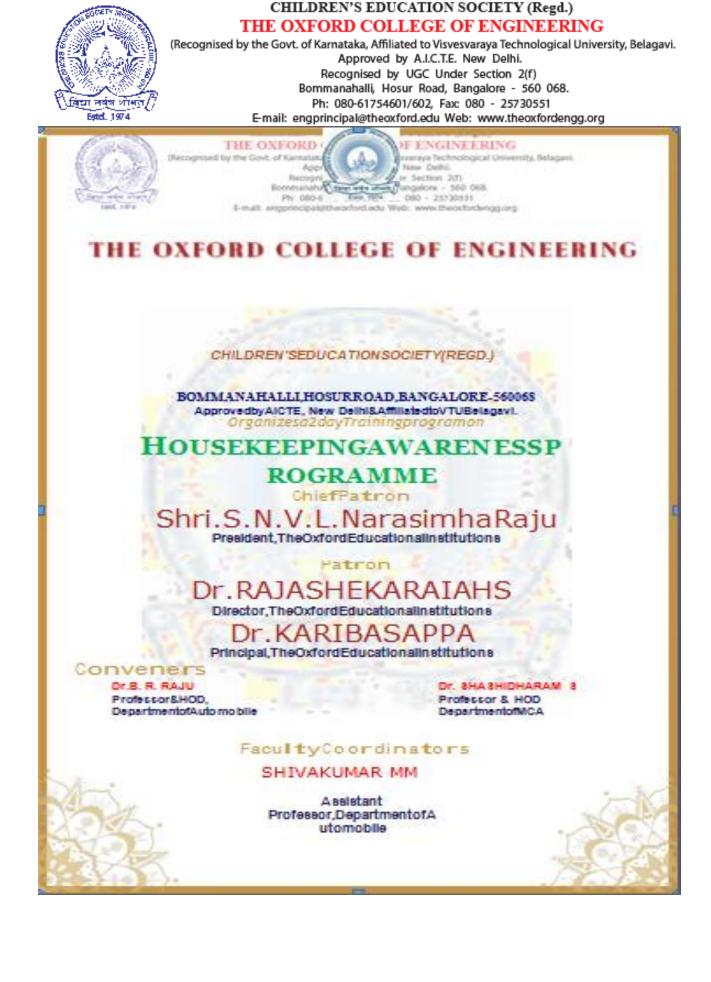


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Housekeeping Awareness Program

Date:18/03/2017





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#### Report

The oxford college of engineering organized a one-day workshopon""Housekeeping awareness programme" on 18th March 2017at the seminar hall 5<sup>th</sup>floor new building for housekeeping staffs. The main objective of this programme is toaware them about the importance of house keeping and cleanliness. Also, the Laboratoryarea house keeping also discussed. Dr. Raju, HOD Department of Automobile TheOxford College of Engineering, Bengaluru resolved the queries asked by the employees. Discussion Session was quite interesting & helpful to resolve many doubts of the participants.



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2017-18

#### **Internet of things**

#### Date:10-11-2017/11-11-2017

The Oxford College of Engineering Registration Form Internet of Things 10th & 11th November, 2017 Name	CHILDREN EDUCATION SOCIETY DEPARTMENT OF ISE DEPARTMENT OF ISE DEPARTMENTO DEP
Stream	-Device to Device Interaction
College/ Institution Mobile No E-mail: Registration Fee Rs DD No Date: Name of the Bank & Branch:	Inth & 11th November, 2017
Signature with seal Principal/Head of Applicant the Institution. NOTE: The filled in applications should be sent on or before 10th Nov. 2017. Address for Communication The Principal, The Oxford College of Engineering 10th Milestone, Bommanahalli, Hosur Road, Bengaluru-560068 Website: www.heoxford.edu	Resource Person from i3indya Technologies Organized by <b>The Oxford College of Engineering</b> Dith Milestone, Bommanahalli, Hosur Ronad, Bengaluru-560068 080-30219601/602/604 www.sheoxford.edu Contact Details:Mr. Channappa Gowda (984432109-4), Adarsh Gupm(7204997136)



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### THE OXFORD COLLEGE OF ENGINEERING

#### DEPARTMENT OF ISE

#### INVITES

For

#### Workshop

#### On

### "INTERNET OF THINGS"

### By

## Mr. Anchal Koshta & Kamlesh Kumar

(Embedded Engineers, i3indiya Technologies)

Date: 10<sup>th</sup> and 11<sup>th</sup> November 2017 Venue: IV Floor Seminar Hall Timings: 10:30 am to 4:00 pm



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### Department of Information Science and Engineering The Oxford College of Engineering Bommanahalli, Bangalore-68



#### **CHIEF PATRON**

Sri.S.N.V.L.Narashima Raju President,Children's Education Society

#### CHIEF MENTOR

Dr. R. Nagaraj Director The Oxford Educational Institutions

#### MENTOR

Dr R V Praveena Gowda Principal, TOCE

#### **PROGRAM CHAIR**

Dr. D. Jayaramaiah HOD, Department of ISE

#### CSI-Student Branch Coordinator

Mr Karthik S L Assistant Professor, Dept. of Ise

#### **PROGRAM COORDINATORS**

Mr Channappa Gowda Mr Amreesha Ms Geethanjali

#### I STUDENT CHAPTER COORDINATORS

Ankit - III Year ISE Ayush - III Year ISE Adarsh - III Year ISE

### TWO DAYS WORKSHOP ON "INTERNET OF THINGS" (Device to Device Interaction)

Computer Society of India - Student Chapter - TOCE of the Department of Information Science and Engineering is organizing two days workshop on "Internet of Things" on 10th & 11th November 2017. The workshop is open to all Engineering departments.

#### **Resource Persons of the workshop:**

Mr. Anchal Koshta & Mr. Kamlesh Kumar Embedded Engineers, i3indiya Technologies

#### THE TAKE AWAYS

- Knowledge of IOT/IOE Technologies
- Deep understanding of device to device interfacing and IPV6
- Implementing projects of IOT
- Building smart apps with IOT

#### PARTICIPANTS

Final year and 3rd-year students of all departments can participate in the workshop.

### For Registration & further queries contact:

Mr.Karthik S L, Asst. Professor, +91-9886622862 Mr.Channappa Gowda, Asst. Professor, +91-9844321094 Adarsh Gupta, 3rd yr, +91-7204997136 Registration fees per student: 599/- only Last date for registration: 9th Nav 2017



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Children's Education Society (Regd.) THE OXFORD COLLEGE OF ENGINEERING Bommanahalli, Hosur Main Road, Bengaluru-68 The Department of ECE, BT & CSE Cordially invites you for the Inauguration of the DST-TIFAC, Govt. of India

Sponsored

Two Day Faculty Development Program on Know Your Intellectual Property Rights Patent Awareness workshop

> In association with KSCST and VTU, Belagavi

On 28<sup>th</sup> December, 2017, at 10.00 a.m. Venue: Seminar Hall, VI Floor

> Dr. Prabhat Ranjan Executive Director, TIFAC-DST, New Delhi Has kindly consented to be the chief Guest

Dr. S.G. Sreekanteswara Swamy Executive Secretary, KSCST, IISc, Bengaluru Has kindly consented to be the Guest of Honor

Sri.S.N.V.L. Narasimha Raju Chairman, The Oxford Educational Institutions will grace the occasion

Dr. R. Nagaraj Director, The Oxford Educational Institutions

Dr. R.V. Praveena Gowda Principal, The Oxford College of Engineering

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TWO DAYS FACULTY DEVELOPMENT PROGRAM ON KNOW YOUR INTELLECTUAL PROPERTY RIGHTS (IPR) PATENTAWARENESS PROGRAM in association with TIFAC, New Delhi PROGRAM SCHEDULE 28th & 29th Dec-2017 Ord College of Engineering, Rommonshalli, Ber

28th & 29th Dec-2017 Venue: VI Floor Auditorium, The Oxford College of Engineering, Bommanahalli, Bengaluru.

Registration 9:30-10.00 am Inauguration: 10.00-11.15am

1	No Topic	Name	Duration 0	Contact Details
-	Technology Vision 2035 and National	Day 1, 28/12/2017		
2.	I K Policy	Prof. Prabhat Ranjan, Executive Director, TIFAC	1Hr 11.30-12.30	
2.	Patent Information Centre & its Support for Innovation & IPR in Karnataka	Dr. S. G. Sreekanteswara Swamy Executive Secretary I/c, Karnataka State Council for Science and Technology	20 mts 12.30-1.pm	
	LU	NCH BREAK-1-1.30pm		
3.	introduction to IPR	Ms. Sangeeta Nagar, Scientist E, PFC-TIFAC	1Hr 1.30-2.30pm	
4.	Industrial Design & their Registration in India	Dr Rama Krishnamurthy, Patent Attorney, Ibha Ip Solutions, Bangalore	45 mts 2.30-3.15 pm	
	n	EA BREAK-3.15-3.30		
5.	Patenting System in India	Dr. S P Subramaniyan, Head Chennai Patent Office	45 mts 3.30-4.15pm	
		Day 2, 29/12/2017		
5.	Patenting in Engineering	Shri Nikhil S. Reddy, K&S Partners, Bangalore	1Hr 10-11ám	80 40427940
•	Importance of IP Policy and Cell for Educational Institutions	Ms. Sangeeta Nagar, Scientist E, PFC-TIFAC	30 mts 11-11.30am	
	TE/	A BREAK-11.30-11.45		
•	Copyright Management in Academic Institutions	Ms. Bindu Shærma, CEO, Origiin IP Solutions LLP	30 mts 11.45-12.15p	m
•	Prior Art Search for Novelty with Demo	Ms. Shivani Srivastava, Patent Attorney, M/s Lex Orbis, Bangalore	30 mts 12.15-12 45p	m
	LUNC	H BREAK12.45-1.30 pm		
).	Technology Transfer & Patent	Shri N G	30 mts	

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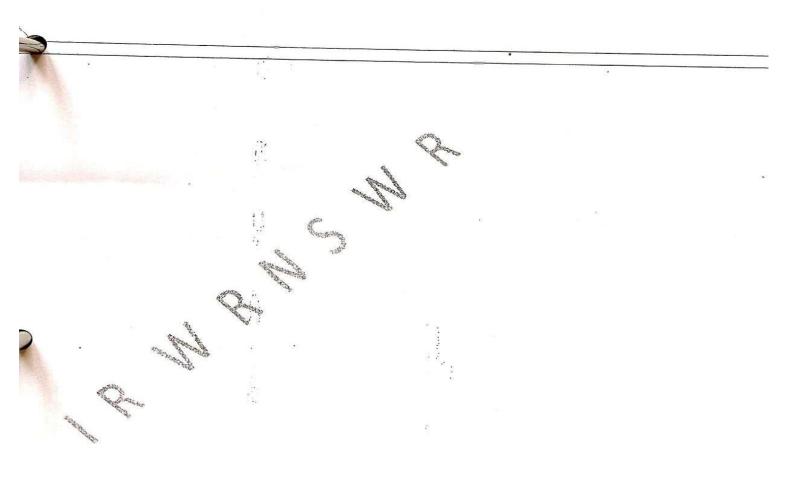
Professor & HOD of E&C Engineering Tue Oxford College of Engineering Bommananalli, Bangalore-560 068.



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### Licensing Lakshminarayan, Chief, NRDC, Bangalore 1.30-2pm 11. Handling IP in Industry: TCS Experience Mr. Srikanth Venkatesh, TCS, Bangalore 30 mts PANEL DISCUSSION-2.30-3.15pm VALEDICTORY-3.15-3.45pm

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Two days FDP on know your Intellectual Property Rights in association with DST-TYPHAC, Government of India, KSCST

#### and VTU, Karnataka

Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING DEPARTMENT OF BIOTECHNOLOGY Hosur Road, Bommanahalli, Bengaluru-560 068 080-30219601/02, Fax: 080-25730551, 30219629, 080-30219601/02, Fax: 080-25730551, 30219629, Children's Education Society ® DEPARTMENT OF BIOTECHNOLOGY Hosur Road, Bommanahalli, Bengaluru-560 068 080-30219601/02, Fax: 080-25730551, 30219629, Children's Education Society ® Hosur Road, Bommanahalli, Bengaluru-560 068 080-30219601/02, Fax: 080-25730551, 30219629, Website: www.theoxford.edu.

<u>Report on Faculty Development program on Know your intellectual property</u> <u>rights – Patent Awareness Workshop on 28<sup>th</sup> & 29<sup>th</sup> December, 2017.</u>

The Department's of Biotechnology, ECE & CSE organized a two day faculty development program on *"Know your intellectual property rights – Patent Awareness Workshop"* sponsored by DST-TIFAC, Govt. of India, on 28<sup>th</sup> & 29<sup>th</sup> December 2017. The main aim of the workshop was to impart greater awareness about the issue of IPR to the teaching and research fraternity and enable them to utilize it.

The main objective of the program were:

- To understand patentability criteria in detail and viable aspect of the patent.
- To understand and asses the importance and scope of IPR in academic researches.
- To understand types of innovations patentable & how to test patentability of innovations.
- To understand procedure of patent writing, patent filing and the process of granting patent.
- Indian IPR policy and facility extended for filing.

The Program was inaugurated by the chief guest, Professor Prabhat Ranjan, Executive Director, DST-TIFAC, New Delhi, who delivered key note address on the program. Dr. Nagaraj R, Director of The Oxford Group of Institutions presented a overview of the work shep and emphasized on the need for greater level of understanding of IPR in the academics and its utilization for minimizing the gap between industry and academia. Principal Dr. Praveen Gowda addressed the gathering stressing on the importance of protecting and patenting the innovations in the present day scenario in the field of Engineering. the inaugural session concluded with vote of thanks delivered by Dr.Balacoteshwari, Professor. Master of Business Administration. On the eve of inauguration dignitaries from various Academic institutions and Industry personals were present.

The first technical session began with Prof. Prabhat Ranjan delivering a talk on "Technology vision 2035 and National IPR policy" which emphasized on the importance of innovation, IPR policy, Academia and Industry interaction, global scenario in technology development and role of India in Global Science and technology. The Second Technical session was given by Mrs.Sangeetha Nagar, Scientist E, PFC-TIFAC, she delivered an expert lecture on the

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"Introduction to IPR" throwing light on the various opportunities for patenting the innovations, schemes of TIFAC in promoting filing of IPR. The third session was followed by Dr.S.P Sbramaniyan, Head Chennai Patent office, the speaker delivered a talk on ." Patenting systems in India." the sessions gave an insight in the deeper understanding of IPR and the regulations and systems of patenting in India.

The post lunch session had an invited talk on "Prior Art search for Novelty with Demo" by Dr.Shivani Srivastava, Patent Attorney, M/s Lex Orbis, Bengaluru, explaining the method and procedure followed for prior art search, various websites, literature, and resources available for faculties.

Second day Pre lunch session was started with a series of expert lecture from Mr. Naveen Surja, K&S Partners, Bengaluru, He delivered a lecture on "Patenting in Engineering" explaining the methods that can be employed in enhancing innovation and patenting in Engineering technology and "Importance of IP policy and cell for educational institutions" was the talk delivered by Mrs. Sangeetha Nagar, Scientist E,PFC-TIFAC, In the third session, Ms.Bindu Sharma, CEO, Origin IP solutions LLP delivered a talk on "Copyright management in academic Institution". the session continued with Dr. Rama Krishnamurthy, Patent Attorney, Ibha IP solutions, Bengaluru addressing the participants with her talk on "Industrial Design & their registration in India".

The second day post lunch session began with technical talk titled "technology transfer & Patent Licensing"by Mr. N G Lakshminarayan, Chief NRDC, Bengaluru and the session ended by the last speaker Mr. Srikanth Venkatesh, TCS, Bengaluru delivering the lecture on "handling IP in industry: TCS Experience". A panel of experts was invited on the dias to address the doubts and confusions raised by the participants.

The FDP ended with valedictory function by the professionals and the staff members, collection of opinions from the participants and most importantly, distribution of Certificates of Participation for all the participants.

The workshop was successful in bringing awareness on patenting and the various opportunities available in Government policies to promote the innovation and patenting. It helped the faculty in understanding the role of TIFAC in promoting the patent awareness. The participating faculty of Visvesvaraya Technological University greatly benefited by the workshop and appreciated the effort of the Oxford College of Engineering and DST-TIFAC in organizing such a informative, brain storming, educative sessions and requested to organize one more Advanced workshop to train the faculty on patenting procedure. On behalf of all participants we express our deep gratitude to DST-TIFAC, Executive Director Professor Prabath Ranjan, Mrs.Sangeetha Nagar, and Mr.Yeshawant D Panwar PFC-TIFAC for their kind support and we expect more such associated activities to spread awareness on Innovation and patenting in Academic Institutions.

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#### Workshop on Genomic Informatics sponsored by Bionivid Pvt. Ltd., Bengaluru



#### Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING DEPARTMENT OF BIOTECHNOLOGY

Hosur Road, Bommanahalli, Bengaluru-560 068 080-30219601/02, Fax: 080-25730551, 30219629, (Approved by AICTE, New Delhi, Accredited by NAAC, New Delhi & Affiliated to VTU, Belgaum) Website: www.theoxford.edu.

#### Report on the two days workshop on Genomic Informatics from 27-10-2017 to 28-10-2017

#### **OBJECTIVES OF THE WORKSHOP:**

- Understanding the basics principles of Genomics and Proteomics data analysis.
- Using Linux environment and commands how to analyze FastaQ files and Next generation sequencing data.

The Department of Biotechnology has organized a two days workshop on "Genomic Informatics" in association with Bionivid Pvt. Ltd., Bengaluru on 27<sup>th</sup> to 28<sup>th</sup> October 2017. The Program was inaugurated by the chief guest Dr. S. G. Sreekanteswara Swamy. Principal Scientific Officer and Executive Secretary, KSCST & VGST. Bengaluru, who delivered key note address on the Workshop Program, Principal Dr. Praveen Gowda addressed the gathering stressing on the importance of engineering students in medical field, followed by Director Dr. R Nagaraj explained the students how should they adapt with new technology which is going on in industries. Dr. B.K. Manjunatha, professor, Department of Biotechnology gave key note address on the Workshop program. Mrs. Sindhu and Mr. Shambhu Asst Professor, Department of Biotechnology delivered vote of thanks. Mrs. Valermathy Asst Professor anchored the whole program. On the eve of inauguration dignitaries from various Academic and Industry personals attended.

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In the First technical session, Dr. S. G. Sreekanteswara Swamy. Principal Scientific Officer and Executive Secretary, KSCST has delivered talk on genomic applications in medical field. Second Technical session was given by Mr. Avinash Dhar, Senior Genome Analyst, Bionivid Pvt. Ltd., Bengaluru, he delivered an expert lecture on the "Data analysis of NGS (Next Generation Sequencing". The invited talk was followed by Hands on training on Next Generation Sequencing and basic principles, loading the files and analysis by command prompt.

Second day Pre lunch session was started with an expert lecture from Mrs. Richa ,HR Bionivid Pvt Ltd, Bengaluru, she delivered a lecture on "*Evolution of Genome Sequence Technology: Past, Present & Future*". In the second session, hands on training on Fastaq files handling and analysis of SNPs in genomic data in Linux environment.



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#### ABOU, HE INSTITUTE

The Oxford College of Engineering is one of the 36 prestigious institutions run by the Children's Education Society founded by the eminent Educationalist & Philanthropist (Late) Shri. S. Narasa Raju. His legacy is being carried forward by the President Shri. S. N. V. I.. Narasimha Raju, the most dynamic technocrat & the driving force to attain global academic excellence. The college has been accredited by NAAC and aims at carving competent students with extraordinary value systems to face challenges of the continuously changing World. There are 11 UG programs, 14 PG programs & 10 VTU approved R & D Centers are running in the College.

#### ABOUT THE DEPARTMENT

Department of Biotechnology made its debut in The Oxford College of Engineering in the year 2003. The excellent infrastructure of the Department and faculty driven entity involving multidisciplinary expertise has created an amicable ambience to provide quality education to the aspiring biotech engineers. The department has R & D Center which engages in carrying out research works in various fields. The innovative ideas generated by R&D centre has been recognized by various Government funding agencies *viz.*, DRDO-NRB, DAE-BRNS, AICTE, VGST-KFIST, VTU & No

#### ABOUT THE WORKSHOP

The workshop exposes the audience to the concept of genomics computing, various roles in genomics and proteomics, analyze Next Generation Sequencing (NGS) data for end-users and provide gene predictions. This will give participants insights into what goes behind providing infrastructure and how administrators manage large data centers.

As a part of CSR (Corporate Social Responsibility), "The Genome Education" initiative with a vision to create skill sets and awareness among students for a career as Genomics Data Scientist. Today, many opportunities await students in this domain, in both academia and industry.

Solo in collaboration with Bionivid Pvt. Ltd. Bengaluru, the Department is organizing 2-days workshop for UG students to introduce them to Genome Informatics and also share knowledge on various career opportunities in academia and industry respectively.

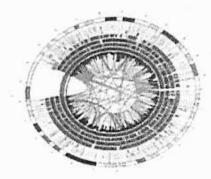
The 2-Day Workshop will include :

- Presentation on Genome Informatics & Career Opportunities.
- Analysis of NGS data
- Evolution of Genome Sequence
  - Technology: Past, Present & Future
- Hands-on-workshop FUN WITH GENOMICS

### INTENDED AUDIENCE

The Workshop is open for the students of the BT, ISE/CSE Departments and all Inter disciplinary Research Scholars.





ADDRESS FOR COMMUNICATION

Mr. Shambhu M.G Asst Professor, Dept of Biotechnology Email :shambumg13@gmail.com Contact no :9880613060

Dr. Manjunath B.K Professor and Dean R &D Department of Biotechnology. Email:dr.manjunath.toce@gmail.com Contact no: 9448839887



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Children's Education Society (Reg.)



**THE OXFORD COLLEGE OF ENGINEERING** Bommanahalli, Hosur Main Road, Bengaluru-560068

### DEPARTMENT OF BIOTECHNOLOGY

Is Organizing

#### **Two Days Workshop**

(27<sup>th</sup> to 28<sup>th</sup> October 2017)

On

### "GENOMIC INFORMATICS"

On Friday 27<sup>th</sup> October, 2017 at 10.00 A.M

#### CHIEF GUESTS

Dr. S. G. Sreekanteswara Swamy Executive Secretary Karnataka State Council for Science and Technology

> Mr. Avinash Dhar, Senior Genome Analyst Bionivid Pvt. Ltd., Bengaluru

Venue: 3<sup>rd</sup> Floor Seminar Hall, New Block, The Oxford College of Engineering

#### Dr. Kusum Paul

#### Dr. B.K. Manjunath

Professor & Dean R & D

Professor & Head,

Staff & Student

Coordinators

**Department of Biotechnology** 



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CALLER B

he Oxford College of Engineering Department of Biotechnology Approved by AICTE & Accredited by NAAC, New Delhi & Affiliated to VTU, Belagavi)	PATRONS CHIEF PATRON Sri, S. N. V. L. Narasimha Raju, President, Children's Education Society (Reg.)	bionivid
Two Days Workshop on <b>Genomic Informatics</b>	CHIEF ADVISORS Dr. R. Nagaraj Director,	Two days workshop on
27 <sup>th</sup> - 28 <sup>th</sup> October, 2017	The Oxford Educational Institutions	<b>Genomic Informatics</b>
REGISTRATION FORM	Dr. R.V. Praveena Gowda Principal, The Oxford Collars of Engineering	27 <sup>th</sup> - 28 <sup>th</sup> October, 2017 Organized by
esignation: Dept.;	The Oxford College of Engineering	Department of Biotechnology in association with
stitution:	Dr. Kusum Paul, Prof. & Head, Dept. of Biotechnology The Oxford College of Engineering	Bionivid Pvt. Ltd., Bengaluru
ddress:	CO-CONVENER Dr. Manjunath. B. K, Professor, Dean R & D Dept of Biotechnology	WORKSHOP VENUE
tobile No: mail ID: tegistration Fees: Rs 100/-	CHIEF GUEST Dr. S. G. Sreekanteswara Swamy.	THE OXFORD INSTITUTIONS
pot Registration will also be considered between 9.00 im to 9.30 am on 27 <sup>th</sup> October 2017	Principal Scientific Officer and Executive Secretary I/c KSCST & VGST.	
Signature of Applicant Signature of Principal	ORGANIZING COMMITTEE Mr. Shambhu M.G. Asst Professor Dr. Suma T K, Asst. Professor Mr.Divakara R, Asst. Professor Ms. Salma Kausar M, Asst. Professor Mrs. Valarmathy K, Asst. Professor Mrs. Tanusree Bhattacharya, Asst. Professor Ms. Sindhu R Asst. Professor.	Hosur Road, Bommanahalli, Bengaluru-560 068 080-30219601/02, Fax: 080-25730551, 30219629 (Approved by AICTE & Accredited by NAAC, No Delhi & Affiliated to VTU, Belgaum)



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M Gmail

Shambu Mg <shambumg13@gmail.com>

20 September 2017 at 18:29

## Reg : 1-Day Workshop on Genome Informatics

2 messages

Richa Bhardwaj <richa@bionivid.com> Reply-To: Richa Bhardwaj <richa@bionivid.com> To: "shambumg13@gmail.com" <shambumg13@gmail.com>

Dear Sir,

I am Richa Bhardwaj, Program Coordinator of The Genome Education(TGE) at Bionivid Technology Pvt Ltd.

Bionivid is a heading Genome Informatics Company, providing collaborative services to scientists from reputed institutes like IISC, JNSACR, JNU, DU etc.

As a part of CSR (Corporate Social Responsibility), Bionivid has recently launched "The Genome Education" initiative with a vision to create skill sets and awareness among students for a career as Genomics Data Scientist. Today, many opportunities awaits students in this domain, in both academia and industry.

So, we would like to conduct a 1-day workshop at your college for students to introduce them to Genome Informatics and also share knowledge on various career opportunities in academia and industry respectively .

1-Day Workshop will include : 💋 🖉

- \* Presentation on Genome Informatics & Career Opportunities.
- \* Evolution of Genome Sequence Technology : Past, Present & Future
- \* Hands-on-workshop FUN WITH GENOMICS

#### FUN WITH GENOMICS

- 1. Genome Browser Data Visualisation (See Your Genome)
- 2. Sequence Manipulation & File Handling ( Jab FASTQ Met FASTA )
- 3. Variation Identification & Analysis (Genome Mein Khot Hai !! )
- 4. Genome-Genome Comparison (How Different are you from a Chimpanzee) .... and much more
- !!

The workshop will be followed with an interesting QUIZ and some Exciting Prizes !!

The Seminar session is open to all the students of M.Sc or B.Tech **Biotechnology** or any other **Life Science** domain. Whereas, in the FUN WITH GENOMICS Session, the students of M.Sc 3rd semester and B.Tech 7th semester are invited (25 students only).

Kindly confirm the dates for the Workshop so that we can make the arrangements for the same, accordingly.

We are sure this will benefit the students immensely and request you to share this information with the



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## **Genomics Awareness Program**

As a part of CSR (Corporate Social Responsibility), Bionivid is organizing 1 day Genomics Awareness Program (GAP) under The Genome Education (TGE) initiative with a vision to create skill sets and awareness among students for a career as Genomics Data Scientist. Today, many opportunities awaits students in this domain, in both academia and industry.

#### 1-Day Program Will Include

Seminar (Open To All M.Sc and B.Tech in Biotechnology or any other Lifescience domain)

- Genome Informatics & Gareer Opportunities.
   Evolution of Genome Sequence Technology. Past Present & Future
- Workshop FUN WITH GENOMICS (25 students ONLY M.Sc 3rd Semester or
- (25 students ONLY, M.Sc 3rd Semester or B-fech /th Semester)
- Genume Browser Data Visualisation ( See Your Genome)
- Sequence Manipulation & File Handling ( Jab FASTO Met FASTA)
- Vanation Identification & Analysis ( Genome Mein Khot Hai !!
- Genome-Genome Comparison ( How Different are you from a Chimpanzee )

and much more !

uiz and exciting Prizes

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Please write to ggi@bionivid.com OR Call +91-96637 32004



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### PATRONS

CHIEF PATRON Sri. S. N. V. L. Narasimha Raju, President, Children's Education Society (Reg.)

CHIEF ADVISORS Dr. R. Nagaraj, Director, The Oxford Educational Institutions Dr. R.V. Praveena Gowda, Principal, The Oxford College of Engineering

CONVENER Dr. Manjunath. B. K, Head of the Department, Professor, Dean R & D, Dept. of Biotechnology, The Oxford ( ege of Engineering

ORGANIZII ECRETARY Mrs. Valarm ny K, Asst. Professo Dept. of Biotechnology, The Oxford College of Engineering.

CHIEF GUEST

Dr. Girinath G Pillai. CEO, Zastra Innovations Pvt. Ltd., Bengaluru.

## ORGANIZING COMMITTEE

Dr. Kusum Paul, Professor Dr. Suma T K, Asst. Professor Mr. Divakara R, Asst. Professor Ms. Salma Kausar M, Asst. Professor Mr. Shambu M.G, Asst. Professor Mrs. Tanusree C, Asst. Professor Ms. Sindhu R, Asst. Professor.



Zastra Innovations

Two days Workshop on "Binding Affinity and ADMET in Drug Discovery and Candidate Selection"

4th & 5th April, 2018

Organized by Organized by In association with Zastra Innovations Pvt. Ltd., Bengaluru



DRUG DISCOVERY AND DEVELOPMENT

### VENUE

The Oxford College of Engineering Hosur Road, Bommanahalli, Bengaluru-560 068 Phone No: 080-30219601/02, Fax: 080-25730551, 30219629, (Affiliated to VTU,Belagavi,Approved by AICTE & NAAC Acrredited, New Delhi)

Two days Workshop on "Binding Affinity and ADMET in Drug Discovery and Candidate Selection"

## **REGISTRATION FORM**

Vame:	100
Designation:	
Dept.:	
nstitution:	
ddress:	
hone:	
ax:	
Nobile No:	
mail ID:	

Ogistration Fees: Rs. 150/-Spot Registration will also be considered between 9.00 am to 9.30 am on 4th APRIL 2018

Signature of Applicant :



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### ABOUT THE INSTITUTE

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# ABOUT THE WORKSHOP

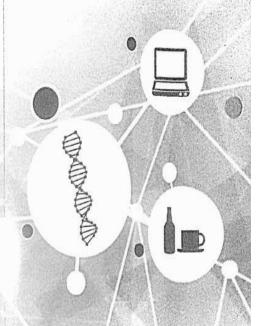
Zastra Innovations Pvt. Ltd. Bengaluru, is a renowned representative for the leading scientific software partners in Computational Chemistry, Molecular, Atomistic Modelling and Medicinal Chemistry field collaborating with a wide range of companies across the globe.

The workshop exposes the audience to explore the latest developments in the technol-)gy for candidate/lead selection in drug discovery, which help in quick selection of target compounds with the best balance of properties for a drug discovery and to analyze the predicti /e modeling of ADMET properties and how the se models can be used to guide the design of improved compounds are trivel. The wo kshop will also helps to un instand the 3-dimensional (3D) structure based design information that can be linked ith 20 SAR analysis, which is vital to meet the requirements of a drug. The workshop aims at providing hands on training on computer aided design which plays an important role in the phase of drug discovery.

The 2-Day Workshop will include : • Presentation on binding affinity and ADMET in Drug discovery & candidate Selection • Hands-on-training on - Predictive modeling of ADMET properties & Candidate Selection ,ADMET in Drug Discovery.

## INTENDED AUDIENCE

The Workshop is open for the students of the BE in the stream of BT, ISE/CSE and all Inter disciplinary Research Scholars.



ADDRESS FOR COMMUNICATION Dr. Manjunath B.K Head of The Department Professor and Dean R &D Department of Biotechnology. Email:dr.manjunath.toce@gmail.com Contact no: 9448839887

### Mrs.K.Valarmathy

Asst Professor Dept of Biotechnology Email :mathy.valar@gmail.com Contact no :9739672705



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Binding affinity and ADMET in drug discovery and candidate selection



#### Children's Education Society ® THE OXFORD COLLEGE OF ENGINEERING DEPARTMENT OF BIOTECHNOLOGY

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### Report on the two days workshop on Binding affinity and ADMET in Drug Discovery and candidate selection" from 4<sup>th</sup> to 5<sup>th</sup> April 2018

### OBJECTIVES OF THE WORKSHOP:

• Workshop aims at providing hands on training on computer aided drug design, screening of lead molecules based on their properties.

The Department of Biotechnology has organized a two days workshop on "**Binding affinity and ADMET in Drug Discovery and candidate selection**" in association with Zastra Innovations Pvt. Ltd, Bengaluru on 4<sup>th</sup> to 5<sup>th</sup> April 2018. The Program was inaugurated by the chief guest Dr. Girinath G Pillai. CEO, with Zastra Innovations Pvt. Ltd, Bengaluru, who delivered key note address on the Workshop Program, Principal Dr. Praveen Gowda addressed the gathering stressing on the importance of Computational Drug discovery in medical field, followed by Vice Principal Dr. R.J. Anandi explained the students on how multidisciplinary science can help to solve real time problems . Dr. B.K. Manjunatha, professor, Department of Biotechnology gave key note address on the Workshop program importance of screening lead molecules and toxicity test from Bioinformatics software. Mrs. Valarmathy Asst Professor anchored the whole program. On the eve of inauguration dignitaries from various Academic and Industry personals attended.

In the First technical session, Dr. Girinath G Pillai. CEO, with Zastra Innovations Pvt. Ltd, Bengaluru. He has delivered talk on Bioaffinity calculation and scoring function formula related to structure activity relationship and water solubility values. Second Technical session was started with Hands on training on how to screen molecules using FlexX software with 2D SAR analysis.

Later in the next session workshop was followed by hands on training on ADMET prediction of lead molecules and screening based on cluster analysis ,students started analyzing case studies, which helped them to screen lead molecules and collective property information on Lipinski's rule.



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The Workshop ended with conclusions and career in drug discovery by the professionals and the staff members, collection of opinions from the students and most importantly, distribution of Certificates of Completion for all the participant

#### Course Outcome:

- Sudents have learnt the proteomics importance, and protein structure valiodation.
- Students have undergone training on ADMET properties of Drug candidates and validation importance in clinical research



Inaugural function of Workshop



Principal addressing on Workshop



Key note talk by the guest

K MANJUNATHA Professor & Head Department of Biotechnology e Oxford College of Engines Bengaluru - 560 co

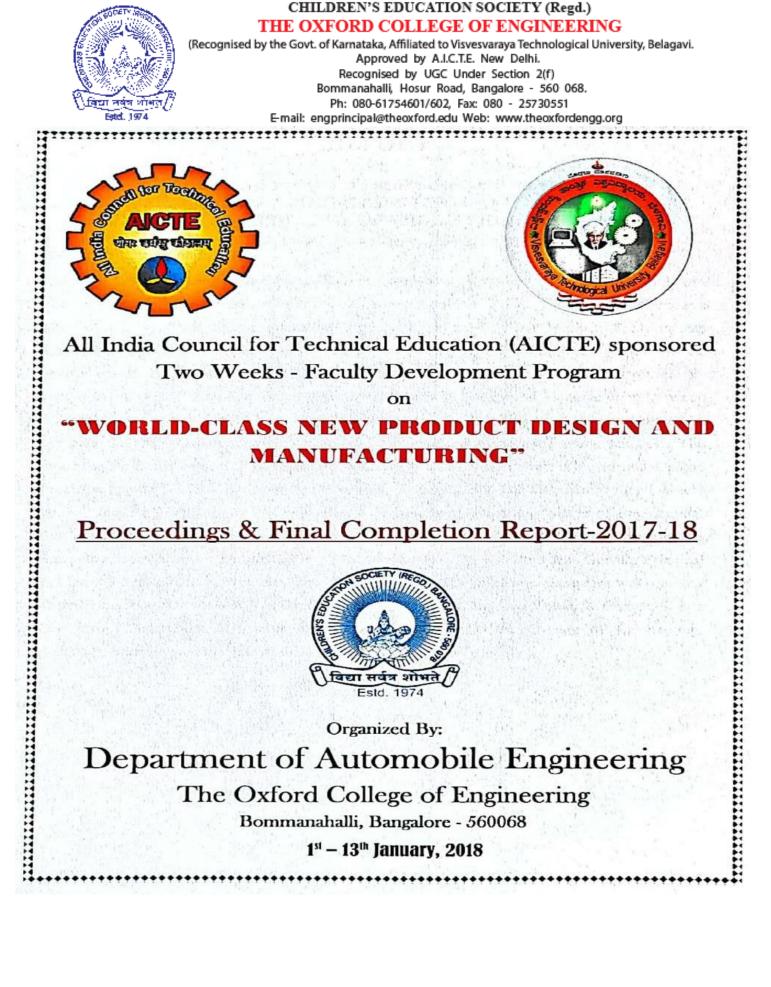


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AICTE Sponsored Two Weeks Faculty Development Programme "World Class New Product Design and Manufacturing" In the Year 2017-18







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AICTE Sponsored

Two Weeks Faculty Development Programme "WORLD CLASS NEW PRODUCT DESIGN AND MANUFACTURING"

#### REPORT

On

#### AICTE sponsored two weeks Faculty development programme "WORLD CLASS NEW PRODUCT DESIGN AND MANUFACTURING" At THE OXFORD COLLEGE OF ENGINEERING, BENGALURU 1<sup>st</sup> – 13<sup>th</sup> January-2018.

The AICTE FDP on World Class New Product Design and Manufacturing inaugurated by Mr. Sadashiva Baligar, Vice President of Toyota-Kirloskar Auto Parts Private Limited, Bengaluru, as a Chief guest, Mr. D R Kumar, Managing Director of M/s SKANDA Machine Tools Private Limited, Bengaluru as the Guest of Honour, Dr. Raju B R, FDP Co-ordinator gave welcome speech to all the participants on 1st January 2018. Total 75 participants were attended the programme and gained the knowledge in the field of Product Design and Manufacturing in which 50 outside participants and 25 internal participants were attended. The sessions were handled by the various subject experts and details of talks are enclosed in the programme schedule. The industrial visit two days was arranged to Skanda Machine Tools Private Limited and Unique Precision Private Limited, Bangaluru on 5th and 6th January 2018. The Valedictory function held on 13th January 2018 by Dr. Y Vijaya Kumar, Principal of Sai Ram College of Engineering, Benagluru was the Chief guest and Dr. R Nagaraj, Director of The Oxford Group of Institutions, Bangaluru, distributed the certificates to all the participants. Dr. R V Praveena Gowda, Principal and Dr. R J Anandhi, Vice Principal, The Oxford College of Engineering, Benagluru was presided over the function. Dr. Raju B R, FDP Co-ordinator and Prof. Sandeep Kumar K Chavan, Event Cordinator, Department of Automobile Engineering, The Oxford College of Engineering, Bengaluru has delivered the vote of thanks.

Dept. of Automobile Engg, The oxford college of Engg, Bangalore

Page 1



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AICTE Sponsored Two Weeks Faculty Development Programme "WORLD CLASS NEW PRODUCT DESIGN AND MANUFACTURING"

#### Date: 1<sup>st</sup> January, 2018 Inauguration Session

Inaugurated by Mr. Sadashiva Baligar, Vice President of Toyota-Kirloskar Auto Parts Private Limited, Bengaluru, as a Chief guest, Mr. D R Kumar, Managing Director of M/s SKANDA Machine Tools Private Limited, Bengaluru as the Guest of Honour.





#### Dept. of Automobile Engg, The oxford college of Engg, Bangalore

Page 2



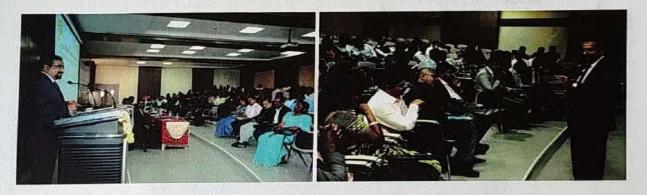
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Two Weeks Faculty Development Programme

"WORLD CLASS NEW PRODUCT DESIGN AND MANUFACTURING"

#### Day-1 & Date: 01-01-2018 Technical Session-1: Topic: New Product Development Process Resource Person: Mr. Sadashiva Baligar, Vice President, Toyota-Kirloskar Auto Parts Private Limited, Bengaluru

The first technical session was started with formal welcome note by Dr. Raju B R, FDP Coordinator, Professor and Head, Department of Automobile Engineering. The resource person of this session, Mr. Sadashiva Baligar, Vice President of Toyota-Kirloskar Auto Parts Private Limited, started his discussion with detail description on challenges in the product development process in the various industries like automobile, machine tools, etc. He gave brief overview of manufacturing process in Toyota Production System (TPS). He further added that if faculty wants to develop themselves and their students, then attending such faculty development programs would enhance their skills of teaching the practical concepts. He ended the discussion with the quotation: *"Win India, Win the World"* The session was ended with the vote of thanks given by Dr. Raju B R, Professor and Head, Department of Automobile Engineering, The Oxford College of Engineering.



#### **Technical Session-2:**

#### Topic: Product Design & Manufacturing

#### Resource person: Dr. C B VIjaya Vittalla, R & D Head, Brahma Consultant, Tumkur

Has given talk on Product development is the set of activities beginning with the perception of a market opportunity and ending in the production, sale, and delivery of a product. He addresses Characteristics of Successful Product Development and also the explicitly focus on products that are engineered, discrete, and physical.

Dept. of Automobile Engg, The oxford college of Engg, Bangalore



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AICTE Sponsored Two Weeks Faculty Development Programme "WORLD CLASS NEW PRODUCT DESIGN AND MANUFACTURING"

At the end of the session, Ms. Sandeep K Chavan, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.



#### **Technical Session-3:**

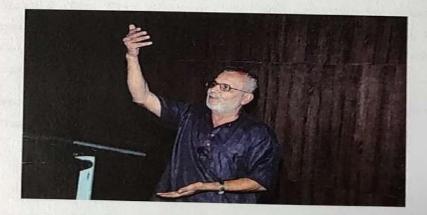
Topic: Case Study on Product Design & Manufacturing

Resource person: Dr. C B VIjaya Vittalla, R & D Head, Brahma Consultant, Tumkur

Welcome note was presented by Dr. Raju.B.R Professor & Head, Dept, of Automobile Engg,

He started from conceptual design of broom stick, their problem definition from complex into simpler sub problems. He explains the Concept Selection is an Integral Part of the Product Development Process, design architecture and ended with product ramp up.

At the end of the session, Ms. Sandeep K Chavan, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.



Dept. of Automobile Engg, The oxford college of Engg, Bangalore



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#### AICTE Sponsored Two Weeks Faculty Development Programme "WORLD CLASS NEW PRODUCT DESIGN AND MANUFACTURING"

#### Day-2 & Date: 02-01-2018

Technical session-4:

Topic: Alternative energy source for Automobile - Hybrid Vehicle

Resource Person: Dr. Bharath Kumar V S, Professor & Head, Dept. of EEE, T.O.C.E., Bengaluru Has given technical talk on Historical perspective of development of Hybrid Vehicle and future electric cars are invented to overcome air and sound pollution in present scenario. he given the components of hybrid vehicles and mentioned the pros and cons of future cars.

At the end of the session, Ms. Sandeep K Chavan, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.



#### **Technical session-5:**

#### Topic: Cellular Metals

Resource Person: Dr. H B Niranjan, Dean R & D, Sambram Institute of Technology, Bengaluru Dr. Raju.B.R Professor & Head, Dept, of Automobile Engg, welcomes the resource person and the delegates of the session. Has given overview of Properties of Cellular Metal & various production methods for cellular metallic materials and also share knowledge on Crash Energy Absorption of different metallic materials.

At the end of the session, Ms.SapthagiriPrasad N, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.

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#### **Technical session-6:**

Topic: Applications of PLM in Product development

Resource Person: Dr. Vijaya Kumar Professor & Head, Dept, of IE&M, JSSATE, Bengaluru

Dr. Raju.B.R Professor & Head, Dept, of Automobile Engg, welcomes the resource person and the delegates of the session. Lecturer on core knowledge on Components of Product life cycle management (PLM) & thirst Opportunities in PLM for better product which is going to be delivering on time to the consumers & importance of data acquisition for various products to systematized the processes in manufacturing industries by using Product Data Management-PDM. At the end of the session, Ms.Priyankar Dhole, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.



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#### **Technical session-7:**

Topic: Laser Beam & Water Jet Machining

Resource Person: Dr.Raju.B.R Professor & Head, Dept, Automobile Engg, T.O.C.E., Bengaluru

As a resource person of the session, highlighted the importance of two different techniques for machining process and comparisons are illustrated to highlight the differences between them. Which technology is best suited to cutting metal? And also details explanation of many different materials for the production which generally have to be respectively formed by a more or less complicated cutting operations.



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Day-3 & Date: 03-01-2018 Technical session-8: Topic: FEA in Product Design

Resource Person: Mr. Bhanuprakash Dixith Consultant, ARK Infosolutions, Bengaluru The third day technical session was started with ARK Infosolutions. He briefed the CFD analysis in product design and had discussion on software solution in product analysis.

ARK Infosolution Pvt. Ltd. is a niche player and a leading value added distributor for technology products in India with its world class team and performance excellence for the industry segments like animation Architecectural engineering & construction Gaming Graphics Design, Manufacturing Mechatronics, Product design and robotics. The company partners with clients in achieving effective solution to meet the inherent challenges of its client's critical business processes.



Technical session-9: Topic: FEA in Product Design

#### Resource Person: Mr. Bhanuprakash Dixith Consultant, ARK Infosolutions, Bengaluru

ARK Infosolutions were provided Hands on session by using fluidyn software to participant with different case realistic problems & the session was ended with problems e.g. CFD, Multi-dynamics, autocorrelation and in regression analysis.

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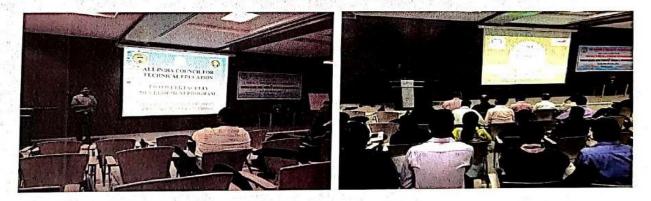


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#### **Technical session-10:**

Topic: Glass Fiber Reinforced Epoxy Hybrid Composites for Automobile Applications Resource Person: Dr.Raju. B.R Professor & Head, Dept, of Automobile Engg, T.O.C.E., Bengaluru He started the session with the basics of properties of matrix and reinforcement Discussion and Further he defined the difference between the composites and ferrous metals & well described the various measures of hybrid composites which has tremendous applications in the automotive industries.



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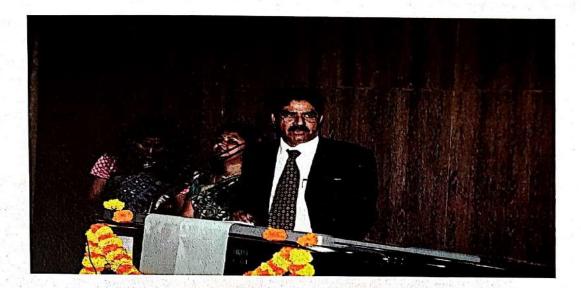


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#### Technical session-11: Topic: TQM in PDM

Resource Person: Dr.Raju.B.R Professor & Head, Dept, of Automobile Engg. T.O.C.E., Bengaluru Mr. Sandeep k chavan welcomed the resource person and delegates of the 11th technical session. Technical session was started by Dr.Raju. B.R He started his discussion with the various multivariate techniques, their need and importance in quality parameters in production process.



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Day-4 & Date: 04-01-2018 Technical session-12: Topic: Engg. Education & Research in India Resource Person: Dr. M S Shashidhara Profes

Resource Person: Dr. M S Shashidhara Professor & Head, MCA, T.O.C.F., Bengalury, Dr. Rain R.P. Professor & Hand D.

Dr. Raju.B.R Professor & Head, Dept, of Automobile Engg, welcomes the resource person and the delegates of the session. Resource person of the technical session, Prof. M S Sheshidhara discussed in detail importance of Research scenario in education and he suggested for how a significant number of engineering institutions would be able to improve their performance from the current dismal stage of development to the aspiration stage of high-performing engineering institutions over the next ten years.



Technical session-13:

Topic: Role of Advanced Material in PDM

Resource Person: Dr. R V Praveena Gowda, Principal, T.O.C.E., Bengaluru

In the Fourth day's technical session, welcome note was presented by Dr. Raju.B.R Professor & Head, Dept, of Automobile Engg, Dr. R V Praveena Gowda, as a resource person of the session, started his discussion with the basic idea of Process optimisation of manufacturing process and gave brief discussion on adaptive and smart manufacturing .He deeply explained finure materials which are biodegradable in nature i.e Biocomposite and also enlightened the participants to involve in research work on biocomposites.

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At the end of the session, Ms. Sandeep K Chavan, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.





#### Technical session-14: Topic: Power of Artificial Intelligence in PDM

Resource Person: Dr. M S Shashidhara, Professor & Head, MCA, T.O.C.E., Bengaluru

Prof. B Dr. M S Shashidhara, Professor has begun his talk by explaining power of artificial intelligence to create insights and detect patterns and anomalies that escape detection by the cognitive. He described, In design engineering domain, integrated concepts of artificial intelligence into commercial PDM systems. The software is based on a dynamic and flexible workflow model, as opposed to the deterministic workflows seen in most commercial PDM applications.

Mr. Harish Kumar, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



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#### Day-5 & Date: 05-01-2018

#### SKANDA MACHINE TOOL INDUSTRY-INDUSTRY VISIT

The FDP participants went for the Industrial visit to the M/s Skanda Machine Tools Pvt. Ltd. Peenya Industrial Area Bangalore – 560058 all the participants over very much delighted and got the knowledge regarding design and manufacturing of special purpose machinery, jigs and fixtures, assembly automation for the automobile industries and also participants visited design, manufacturing, inspection, assembly and dispatch sections.



#### Day-6 & Date: 06-01-2018 UNIQUE PRECISION-INDUSTRY VISIT

On 06/01/2018 all FDP participants visited the M/s. UNIQUE Precision, Peenya Industrial Area Bangalore – 560058 the company is involved in manufacturing in the CNC turned, milling and grinding components and supplying to the general motors, general electric and exporting to the foreign companies. The FDP participants observed & all CNC programming for the parts to be manufactured and seen the CNC machining in all CNC machining. Finally all participants were very happy finally with both the company while they visited for Industrial visit.

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Day-8 & Date: 08-01-2018 **Technical session-16:** Topic: Overview of New Product Design & Manufacturing

Resource Person: Dr. N B Doddapattar. Prof & Head, Dept of Mechanical, TOCE, Banglore In this technical session, Dr. N B Doddapattar. Prof & Head, Dept of Mechanical, TOCE, Banglore presented an overview idea of Product design and manufacturing and its innovative ideas in the development of products. So the idea here is that you need to understand not only how big the marketplace is, but you need to manage your resources so that you are spending it in proportion to that which the customers value. Finally, the product development and management process casts. Mr. Deepak U S, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



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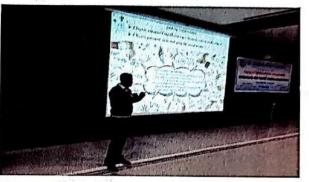
#### Technical session-17:

Tople: Concept initialization & Product Styling with Product Sustainability

Resource Person: Dr. C.Girisha, Professor & Head, Dept of Mechanical, AMCCE, Banglore In the 8th day of Technical session . Mr Raviteja R N presented a welcome note. Professor C.Girisha began his talk with by explaining the introduction of sustainable products, predicted that the move from manufacturing to services production is an outcome of economic forces. Turnover in consumer preferences is in accordance with rapid life-style changes. The breakdown of central society today is directly linked to the inadequate images of probable futures. He concluded that every society faces not merely a succession of probable futures but an array of possible features and conflict over probable futures.

Mr. Maruthi S B, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.





#### Technical session-18:

Topic: Current Developments in MMC's & Thermal Spray Coating Resource Person: Dr. D P Girish Professor, GCE, Ramanagar

In the afternoon session Mr Raviteja R N, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and Resource person. Dr. D P Girish Professor started with Future Development of Thermal Spray Coatings and the latest developments and research trends in the thermal spray industry. The book presents a timely guide to new applications and techniques. After an introduction to thermal spray coatings by the editor, Part One covers new types and properties of thermal spray. Timely guide on the current advancements and research trends in thermal spray technology, Presents a wide variety of applications for this emerging technology.

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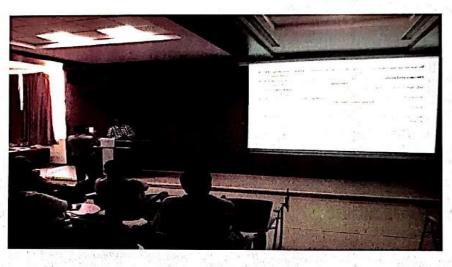


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Mr. Hemantha C, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of

thanks to the resource person and the delegates



#### **Technical session-19:**

Topic: Role of Human Factor Engineering in Product Design

Resource Person: Prof.Sandeep Kumar K Chavan, Assistant Professor, Dept of Automobile Engg, TOCE, Bangalore

In the afternoon session Mr Maruthi S B, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates.

Prof.Sandeep Kumar K Chavan introduced the topic by telling the Human factors and ergonomics (commonly referred to as HF&E), also known as comfort design, functional design, and systems, is the practice of designing products, systems, or processes to take proper account of the interaction between them and the people who use them. Human factors recognize that the workplace needs to be designed and organized to minimize the likelihood of errors occurring and the impact of errors when they do occur. Investing in ergonomics can help to increase the health and wellbeing of office personnel. Effective ergonomic products and practices can increase productivity by reducing the time taken to complete daily tasks.

Mr. Prasanna Kumar S N, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.

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-world Class New Product design and Manu Day-9 & Date:09-01-2018

Technical session-20: Topic: Impact Characteristics on Composite Structures Resource Person: Dr. N Rajesh Mathivanan, Professor, PES University, Bangalore In the nineth day of technical talk a very well known professor from PESIT University Dr. N Rajesh Mathivanan started his talk by giving brief introduction of Composites and its impact

#### characteristics.

The use of composite materials has expanded significantly across civil, aerospace, and marine structures in both new designs and retrofits. The performance benefits from composites-typically, weight reduction with increased strength, corrosion resistance, and improved thermal and acoustic properties-are challenged by a by a host of failure modes whose genesis and progression aren't yet well understood. Correlation of the residual indentation and cross-sectional views of the impacted specimens provide a criterion for the extent of the damage.

Mr. Deepak U S, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



#### Technical session-21:

Topic: Intellectual Property Rights

Resource Person: Dr. R Nagaraj, Director, The Oxford Educational Institutions, Bangalore

In this session Mr Harish Kumar M, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates.

The Director of our College gave a brief note on Intellectual property rights i.e Intellectual property (or "IP") is a category of property that includes intangible creations of the human intellect, and primarily encompasses copyrights, patents, and trademarks. It also includes other types of rights, Dept. of Automobile Engg, The oxford college of Engg, Bangalore Page 19

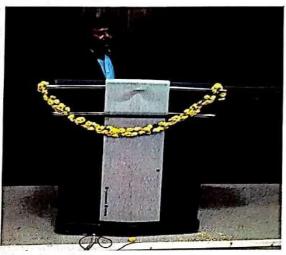


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such as trade secrets, publicity rights, moral rights, and rights against unfair competition. Intellectual property rights refer to the general term for the assignment of property rights through patents, copyrights and trademarks. These property rights allow the holder to exercise a monopoly on the use of the item for a specified period. Examples: Utility patents: For tangible inventions, such as machines, devices, and composite materials, as well as new and useful processes.

Mr. Deepak U S, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



#### Technical session-22:

Topic: Fastening of Laminated Composites-Methods, Testing & Failure Analysis Resource Person: Dr. K V Arun, Professor, GEC, Haveri

In the afternoon session Mr Maruthi S B, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates.

Dr. K V Arun gave knowledge on recent trends and advancements in the manufacturing and cost reduction of composite materials has increased their usage in the transportation, industrial, and many other markets in addition to their traditional use in the aerospace field. On the other hand, analytical and FE stress predictions along the fastener hole. Failure Analysis of Bolted Joints in Cross-ply Composite Laminates. Based on the literature review of state-of-the-art techniques the tests were conducted at room temperature with a Hounsfield electromechanical.

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Mr. Prasanna Kumar S N, Assistant Professor, Dept, of Automobile Engg, ended the session with

vote of thanks to the resource person and the delegates.



#### Technical session-23:

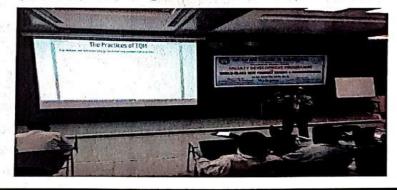
Topic: TQM & Six Sigma

#### Resource Person: Dr. H Ramakrishana Vice-Principal, DSCE, Bangalore

In this session Mr Sapthagiri Prasad, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates.

**Dr. H Ramakrishana** Six Sigma and Total Quality Management are effective tools for quality management but a thin line of difference does exist between them. Although the methodologies and procedures involved in both the two appear quite similar but there are certain major differences. The main focus of Total quality management is to maintain existing quality standards whereas Six Sigma primarily focuses on making small necessary changes in the processes and systems to ensure high quality.

Mr. Hemantha C, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



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Day-10 & Date: 10-01-2018 Technical session-24: Topic: Deep Learning in Automobile Technology Resource Person: Dr. R J Anandhi, Vice-Principal, TOCE, Bangalore

In the Tenth day of technical talk, Mr Sapthagiri Prasad, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates. Vice-Principal gave a talk on future self driving cars and the deep learning of Automotive Technology.

An autonomous car also known as a driverless car, self-driving car, robotic car, and unmanned ground vehicle is a vehicle that is capable of sensing its environment and navigating without human input. She also said about SAE regulations and its autonomy levels of how advanced driver-assistance sytems work. She concluded her talk with explaining the High Level View of data collection system.

Mr. Harish Kumar, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



Technical session-25:

Topic: Creativity in Concept Development

Resource Person: Dr. S M Kulkarni Professor, NITK, Surathkal

In the afternoon session Mr Harish Kumar M, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates.

Dr. S M Kulkarni, delivered his speech by giving outline on Product Development Procedure Concept Development, Creativity in Concept, Generation, General Problem, Solving Model Limitations of the model, Tool for Inventive Problem Solving. He also explained about the

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objectives of creativity in concept development i.e To be able to apply creativity techniques to problem solving. To understand how creativity can be used to transform technology into product concepts. To be able to draft value propositions and business models that result from product ideation. The participants were very happy and satisfied by his new topic Triz, its history and the procedure to carry out the experiments by using Triz method.

Mr. Priyankar Dhole, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



#### **Technical session-26:**

Topic: Dr. N Mohan, Professor, Dr.AIT, Bangalore

Resource Person: Tribo-Mechanical behaviour of fiber Reinforced Composite Materials in Automobile Applications

In the afternoon session Mr Raviteja R N, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and Resource person.

Dr. N Mohan present talk, aims at investigating the role of graphite, Silicon Carbide, Tungsten Carbide, Tantalum Niobium Carbide, and Natural Jatropha oil Cake on the mechanical properties and Tribological behavior of glass fabric-epoxy composite systems having same level of concentration of fillers. He concluded his talk by explaining how composites play a vital role in Automobile fields.

Mr. Prasanna S M, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.

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#### Technical session-27:

Topic: Role of Electronics in Automobile

#### Resource Person: Dr. J Ravi, Professor, GAT, Bangalore

In this session Mr Maruthi S B, Assistant professor, Department of Automobile Engineering, presented a welcome note addressing the gathering and delegates.

Professor J. Ravi introduced his topic by giving the present scenario of Electronics in the new product development and manufacturing and the also transferred a knowledge of Embedded systems, automotive sensors and how antilock braking system. The highlight of the talk was the future trends in automotive industry.

Mr. Priyankar Dhole, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



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Day-11 & Date: 11-01-2018 Technical session-28:

Topic: Reliability Engineering in Solar Thermal Systems Resource Person: Dr. Eswarmoorthy M, Professor, ACSCE, Bangalore

The morning session of 11<sup>th</sup> day, Mr Prasanna S M, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates.

Dr. Eswarmoorthy sir talks were on the outline of introduction, economic reliability of solar energy, physical reliability of solar energy, environmental reliability of solar energy and the research opportunities. He also discussed on the future opportunities of Reliability engineering.

Mr. Sapthagiri prasad, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



#### Technical session-29:

Topic: Overview of Additive Manufacturing Technologies

Resource Person: Dr. C K Srinivas Professor, MIE&S, Maddanapalli

In this session Mr Hemantha C, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates.

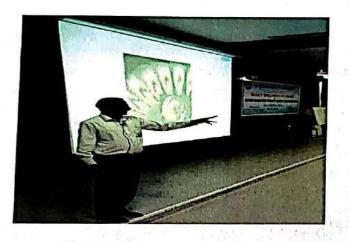
Professor C K Srinivas delivered his talk on Additive Manufacturing which is a new Technology to produce parts with complex geometry in a short time. He also said about the future opportunities of Additive manufacturing and the national scenario of manufacturing in the present generation. Mr. Deepak U S, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.

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#### **Technical session-30:**

Topic: Innovative Product for Better Life

Resource Person: Dr. S B Mallur, Professor & Head, UBDTCE, Davangere

In the afternoon session Mr Hemantha C, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates.

Dr S B Mallur delivered his talk on the introduction of innovative things/products which is an emerging trend in this Era. He discussed on Product innovations are not to be confused with inventions and also the risks and returns in new-product development.

Mr. Priyankar Dhole, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



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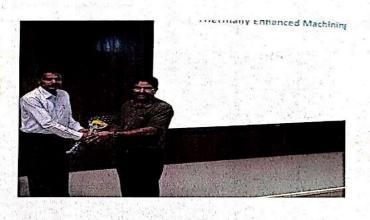
#### **Technical session-31:**

Topic: Thermally assisted Machining of High Chrome White Cast Iron Resource Person: Dr. A M Ravi Faculty, DTE, Harihar, Davangere

In the Last session Mr Hemantha C, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates

Dr. Ravi presented the influence of tool temperature on cutting forces in the thermally enhanced machining of high chrome white cast iron using cubic boron nitride tool by experimentally. He also discussed about the mechanical properties of High Chrome white cast iron.

Mr. Priyankar Dhole, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



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Day-12 & Date: 12-01-2018 Technical session-32:

Topic: Internet of Things

Resource Person: Sri. S K Vijay General Manager, TVS Motors Company Ltd., Hosur

In the Twelveth day of technical talk, Mr Sapthagiri Prasad, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates.

Sri. S K Vijay delivered his talk on the The Internet of things (IoT) and gave complete explanation on the network of physical devices, vehicles, home appliances and other items embedded with electronics, software, sensors, actuators, and connectivity which enables these objects to connect and exchange data. He also said the various advantages and applications of IOT of future automobile and manufacturing industries.

Mr. Prasanna S M, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



**Technical session-33:** Topic: Finite Element Analysis used in PDM Resource Person: Mr. Goaplakrishna C Consultant, Fluidyn, Bangalore

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#### **Technical session-34:**

Topic: Recent Advanced in Fabrication Polymer based Composite ion Engg. Applications Resource Person: Dr. B Suresha Dean R & D, NIE, Mysore

In this session Mr Hemantha C, Assistant professor, Department of Automobile Engineering presented a welcome note addressing the gathering and delegates.

Dr. B Suresha started his talk by telling current advanced fabrications in engineering applications and said about the New classes of polymeric materials with unique applications, and the future scopes in the design and development.

Mr. Priyankar Dhole, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



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Technical session-35:

Topic: Parameters/Procedure for Diesel Engine Exhaust System

Resource Person: Dr.Ganesh Prasad, Professor & Head, New Horizon college of Engg.

#### Bangalore

The last session of our FDP was carried by Professor Ganesh Prasad who explained about the parameters of diesel engine exhaust system. He also described about the concentration of each pollutant, exhaust flow and power output.

Mr. Prasanna S M, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.



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Day-13 & Date: 13-01-2018 Technical session-36: Topic: Optimization in Manufacturing System

Resource Person: Dr. Y Vijaya Kumar Principal, Sai Ram College of Engg., Bangalore



Technical session-37:

Topic: Optimization in Manufacturing System Resource Person: Dr. Y Vijaya Kumar Principal, Sai Ram College of Engg., Bangalore



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#### Valedictory Function:

On the valedictory ceremony, Dr. Y Vijaya Kumar Principal, Sai Ram College of Engg., Bangalore join the session as a chief guest, along with Dr. R Nagaraj, Director of The Oxford Group of Institutions, Bangaluru, Dr. R J Anandhi, Vice Principal, The Oxford College of Engineering, Benagluru, Dr. Raju B R, FDP Coordinator, Professor and Head, Department of Automobile Engineering, Dr. N B Doddapattar. Prof & Head, Dept of Mechanical, TOCE, Banglore

On this occasion, Dr. R Nagaraj, Director of The Oxford Group of Institutions in his address, appreciates Dr. Raju B R, FDP Coordinator along with her team, for successful completion of the program.

Dr. Raju B R, FDP Coordinator, welcomes, Dr. Y Vijaya Kumar Principal, Sai Ram College of Engg., chief guest of the valedictory ceremony and resource person of the session along with advisory board, media persons and all the dignitaries and delegates presented on valedictory session.

At the end, the valedictory session was concluded with a vote of thanks given by Mr.Sandeep Kumar K Chavan, Assistant Professor, Dept,of Automobile Engg,in which he has been paid hir gratitude towards all the dignitaries who has spared their time and come from a far distance places to share their expertise with the participants. He has also thanks the media persons for their continuous coverage of the entire programme.

Nevertheless, he has given thanks to sponsoring body of this FDP i.e. AICTE with these words, "We are highly thankful to the AICTE for providing financial assistance to organize this FDP in our campus and hope we will find the support in future also for organizing such kind of activities."

#### Feedback from the Participants:

The feedback of the participants was very positive and motivational for the organizers. All the participants appreciated the pick and drop facility, food, lodging and boarding arrangements of the nstitute. Moreover, all the resource persons were of repute in their respective fields and the nowledge imparted by them was very useful in their forthcoming academic endeavors.

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Page 35

Professor & Head Department of Automobile Engineering The Oxford College of Engineering Bommanahalli, Hosur Road Bangalore-550 068.



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#### **Typing Skills-Learn Typing with Shortcut Keys**

Date: 06.03.2018

#### Children's Education Society



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Hosur Road, Bommanahalli, Bangalore - 560068

#### **Department of Automobile Engineering**

Organizing

#### **Typing Skills-Learn typing**

#### with shortcut keys

on 06.03.2018

by Dr M S Shashidhara Professor & HOD Dept of MCA The Oxford College of Engineering

Chief Patron Sri S.N.V.LNarasimha Raju President The Oxford Educational Institutions Convener

Dr BR Raiu HOD/AU The Oxford College of Engineering Venue :5<sup>th</sup> Floor Seminar Hall Time :11AM

> Prof <u>Maruthi</u> Assistant Professor The Oxford College of Engineering



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Report on Typing Skills-Learn Typing with Shortcut Keys

Date: 06.03.2018

The Oxford College of Engineering organized a one-day workshop on "Typing Skills-Learn typing with shortcut keys " on 06.03.2018 at 5th floor new building. The Many benefits of learning how to type fast and accurately are save time. Typing is something most of us will have to do a lot of in our jobs, Be More Productive, Better Accuracy etc. Few Techniques to improve the typing skills were taught such as usage of shortcut keys

There was a discussion and the queries asked by the employees were resolved Dr. Shashidhara, HOD Department of MCA, The Oxford College of Engineering, Bengaluru. Discussion Session was quite interesting & helpful to resolve many doubts of the participants.39 participants attended the program.



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Hygiene, Quality and Cleanliness in Mess and Canteen

# The Oxford College of Engineering

Bommanhalli, Bangalore - 560068

Hygiene, quality and cleanliness in mess and canteen

## Year 2017-18

Date : 15th March 2018 Time : 10:00AM Venue: 5<sup>th</sup> Floor Seminar Hall New Building, TOCE



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## CHILDREN'S EDUCATION SOCIETY (REGD.) THE OXFORD COLLEGE OF ENGINEERING

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### Organizes a one day awareness programon HYGIENE , QUALITY AND CLEANLINESS IN MESS AND CANTEEN

Chief Patron Shri. S. N. V. L. Narasimha Raju President, The Oxford Educational Institutions

Patron

Dr. Amarnath K. Principal and Director, The Oxford Educational Institutions

#### Conveners

Dr. Raju Professor and HOD Department of Automobile

Dr.Shashidhar Professor and HOD Department of MCA

Faculty Coordinators Ms. Lavanya.B.S Assistant Professor,

Department of Mathematics





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DATE	TIME	TOPIC	SPEAKER
15th Mar 2018	10:00 - 11:00 AM	About personal hygiene,cleanlines s,and quality of food	Dr. Raju HOD Department of Automobile The OxfordCollege of Engineering, Bengaluru
15th Mar 2018	11:00 - 12:00 NOON	Behaviour and Body language	Dr.Shashidhar HOD Department of MCA The OxfordCollege of Engineering, Bengaluru



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# REPORT

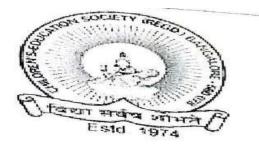
"The oxford college of engineering organized a one day programme on "HYGIENE, QUALITY AND CLEANLINESS IN MESS AND CANTEEN" this is on 15th Mar 2018 at seminar hall 5th floor new building. The main objective of this programme is to maintain personal hygiene of the employees, cleanliness of the canteen and hostel premises, quality of food and appearance and behavior of the employees towards the students . And later regarding the various issues, problems being faced while working and how to come out of it. Dr. Raju, HOD Department of Automobile The OxfordCollege of Engineering, Bengaluru And Dr.Shashidhar, HOD Department of MCA The OxfordCollege of Engineering, Bengaluru resolved the queries asked by the employees. Discussion Session was quite interesting and helped to resolve many doubts of the participents.



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2018-19

**Python and Machine Learning** 



# THE OXFORD COLLEGE OF ENGINEERING

# DEPARTMENT OF ISE

#### INVITES

For

### CSI Workshop

#### On

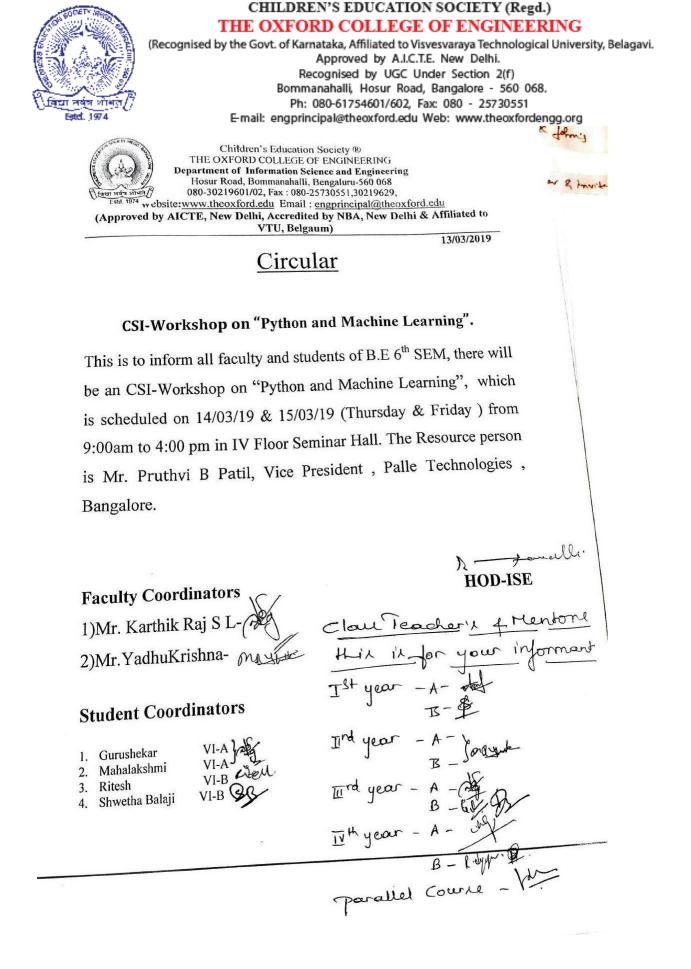
"Python & Machine Learning"

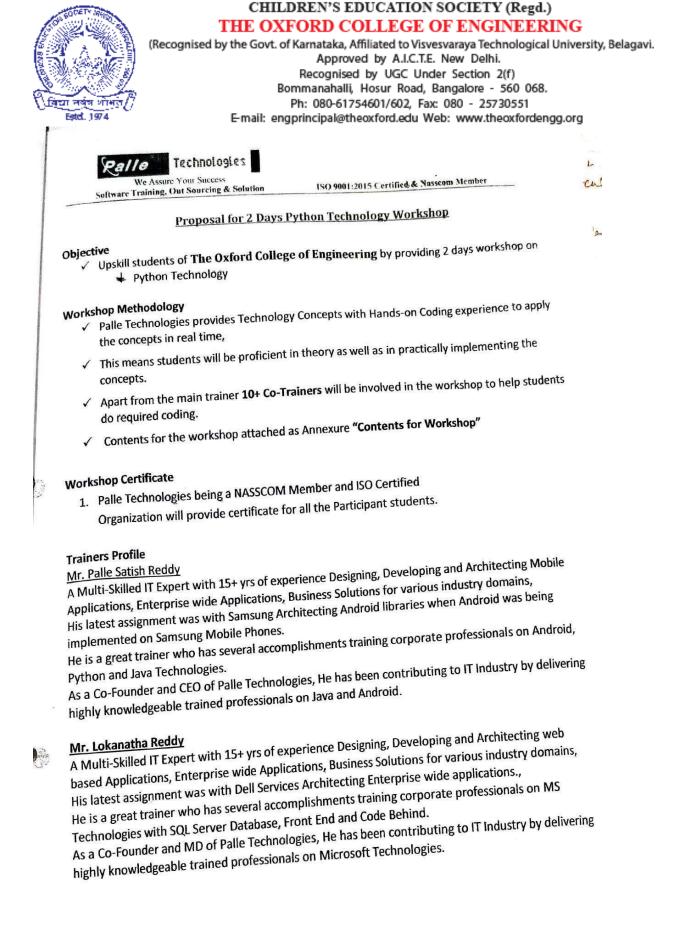
### By

# Mr. Pruthvi B Patil

(Vice President, Palle Technologies, Pvt Ltd, Bangalore)

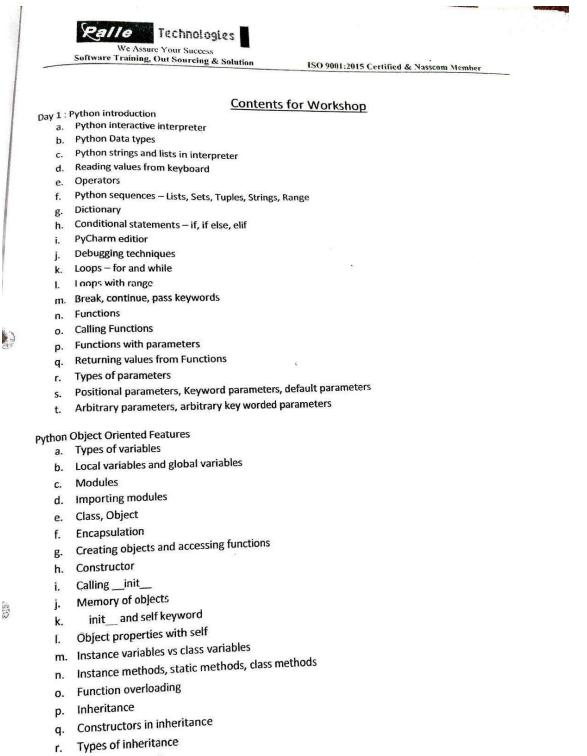
# Date: 14<sup>th</sup> & 15<sup>th</sup> March 2019 Venue: IV Floor Seminar Hall Timings: 09:00 am to 04:00 pm





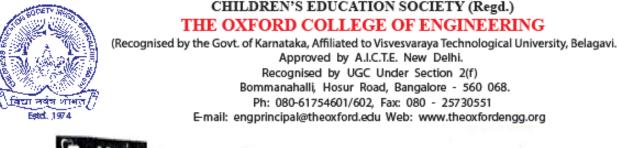


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- Dynamic typing u.
- Polymorphism & duck typing ٧.
- w. Operator overloading

Day 2: Exceptions, Threads, Data structures, Files

- Types of errors a.
- Handing errors b.
- Try, except, finally blocks с.
- Multi threaded programming d.
- Creating threads in python e.
- Lists, list methods f.
- Sets, tuples, range with methods g.
- Stack h.
- Queue i.
- Deque j,
- Dictionary k.
- List comprehension I.
- 2D list comprehensions m.
- **Creating files** n.
- **Reading from files** 0.
- Writing to files p.
- File IO functions q.

Machine Learning and Data Science

- Introduction to Machine Learning a.
- Introduction to Data Science b.
- Data Analytics with Matplotlib Framework c.
- 0



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Workshop on Mentor Graphics & Xilinx (ECE)

# The Oxford College of Engineering

# Bommanahalli, Bengaluru – 560068

Oxford counter

# A Workshop Report on

# "Mentor Graphics & Xilinx"

# **Bachelor of Engineering**

In

# **Electronics & Communication Engineering**

0n 15 March 2019



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#### **One Day Presentation**

#### **Mentor Graphics Agenda**

#### **Full Custom Design Flow**

Schematic Entry, Spice Models, Simulation DC Analysis and Transient Analysis

#### Layout entry

Schematic driven Layout Physical Verification Using Industry Standard Calibre Tool (DRC, LVS, xRC)

#### Semi Custom Design Flow

Design Entry (Verilog): Functional Verification with Questasim Synthesis using Precision/Leonardo

#### Xilinx Agenda

The second second

#### Vivado Design Flow

Use Vivado IDE to create a simple HDL design. Simulate the design using the XSIM HDL simulator available in Vivado design suite. Generate the bitstream and verify in hardware.

#### Synthesis Technique

#### Synthesizing a RTL Design

Synthesize a design with the default settings as well as other settings changed and observe the effect.

#### Implementation and Static Timing Analysis

#### Implementing the Design

Implement the synthesized design of previous lab, perform timing analysis, generate bitstream, download the bitstream and verify the functionality.

#### Hardware Debugging

Use Mark Debug feature and also available Integrated Logic Analyzer(ILA) core (available in IP Catalog) to debug the hardware.

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# Report

Workshop: Montor Graphics and Xilins

Bys Mr. Vijendra, Application Engineer at Cors El. Technologue, Bengaliure

Date: 15/03/2019 (Friday)

#### Pattern of section:

- · Threaty Separation
- Hands-On Sevenon

Professor & HOD of E&C Engineering The Oxford College of Engineering Bommananalli, Bangalore - 560 068.

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The weekshop began at 11am by Mr. Vijendra who is an application engineer at CoreEL technologies.

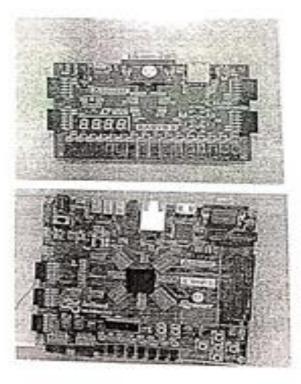
Topics Covered:

- FPGA vs ASIC
- ASIC Design Flow
- Architecture of FPGA and ASIC
- Different Simulation Tools
- Introduction to Stick diagrams and Mask Encoding Diagrams
- Introduction to Xillinx Vivado

The session was interactive and helped the students learn new topics.

Gave the students industrial level knowledge of chip designing.

The students got an idea with new technologies used in the market.

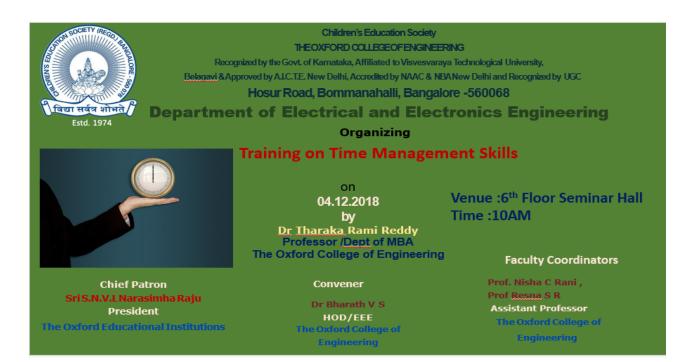




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#### **Time Management Skills**

Date: 04.12.2018





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Date: 04.12.2018

The Oxford College of Engineering organized a one-day workshop on "Time Management skills " on 04.12.2018 at 5th floor new building. The main objective of this programme are to make the participants aware of how to achieve better results through effective planning and clarifying objectives, spend more time working toward your high-value goals and prioritize various tasks and perform accordingly

There was a discussion about various issues and the queries asked by the employees were resolved Dr. V S Bharath, HOD Department of EEE, The Oxford College of Engineering, Bengaluru. Discussion Session was quite interesting & helpful to resolve many doubts of the participants.



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Organizes a 1dayAwareness programon DISCIPLE AWARENESS PROGRAM FOR COLLEGE SECURITY PEOPLE

ChiefPatron Shri.S.N.V.L.NarasimhaRaju President, The Oxford Educational Institutions

> Dr.Amarnath K Director, The Oxford Educational Institutions

Dr. Aravind Principal, The Oxford Educational Institutions

Dr. B. R. RAJU Professor & HOD, Department of Automobile Dr. SHASHIDHARA M S Professor & HOD Department of MCA

RAGHU K

Conveners

Assistant Professor, Department of Mechanical Engineering



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The Oxford College of Engineering Bommanhalli, Bangalore - 360068 DISCIPLE AWARENESS PROGRAM FOR COLLEGE SECURITY PEOPLE

### YEAR 2018-19

Date :19<sup>th</sup> April 2019 Time : I0:00AM

Venue: 6th Floor Seminar Hall New Building, TOCE



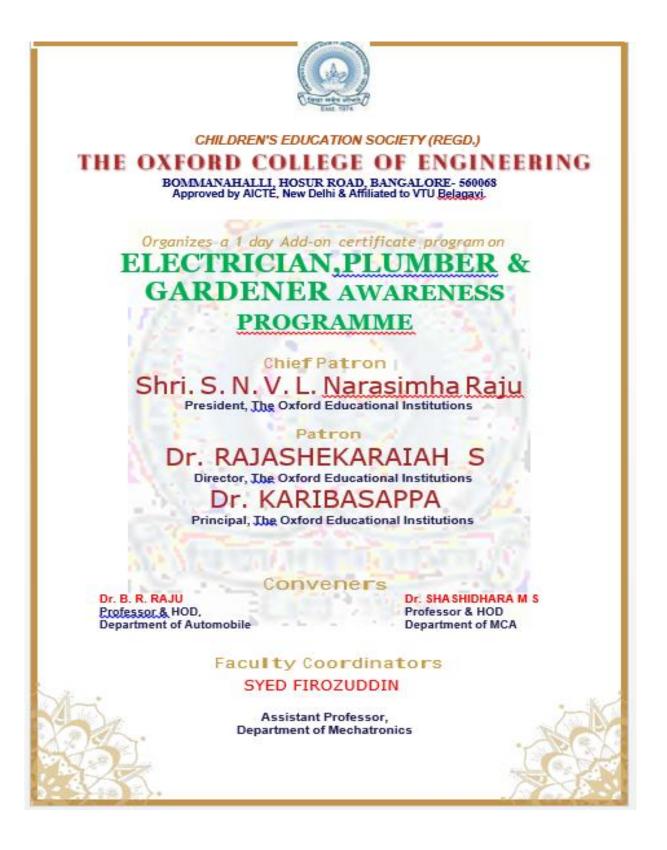
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The oxford college of engineering organized a one-day programme on "Disciple awarenessprogram for college security people" this is on19th April 2019 at seminar hall 6<sup>th</sup> floornew building. The main objective of this programme is tosecurity awareness basics, security awareness essentials and security training and threat awareness regarding the variousissues, problems being faced while working and how to come out of it. Dr. Raju, HOD Department of Automobile. The Oxford College of Engineering, Bengaluru And Dr. Shashidhar, HOD Department of MCA The Oxford College of Engineering, Bengaluru resolved the queries asked by the employees. Discussion Session was quite interesting and helped to resolve many doubts of the participents.



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**Electrician, Plumber & Gardener Awareness** 





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March 12.30pm     To 12.30pm     facility provided quality of work, appearance & behavior with co- worker.     Dr. Raju HOD Department of Automobile The Oxford College of Engineering, Bengaluru       5th March     1.30pm To     Various social issues, problem being faced while working & how to cope     Dr. M. S Shashidhara Prof & HOD Department of MCA	March 2019To 12.30pmfacility provided quality of work, appearance & behavior with co- worker.Dr. Baju HOD Department of Automobile The Oxford College of Engineering, Bengaluru15th March 20191.30pm To 3.30pmVarious social issues, problem being faced while working & how to cope up with it. Resolved the queries asked by the employee.Dr. M. S Shashidhara Prof & HOD Department of MCA The Oxford College of Engineering, Bengaluru		TIME	TOPIC	SPEAKER
5th March 0191.30pm To 3.30pmVarious social issues, problem being faced while working & how to cope up with it. Resolved the queries asked by the employee.Prof & HOD Department of MCA The Oxford College of Engineering,	15%     1.30pm     Various social issues, problem being faced while working & how to cope up with it. Resolved the queries asked by the employee.     Prof & HOD Department of MCA	15 <sup>th</sup> March 2019	To	facility provided quality of work, appearance & behavior with co-	HOD Department of Automobile The Oxford College of Engineering,
		158 March 2019	To	faced while working & how to cope up with it. Resolved the queries	Prof & HOD Department of MCA The Oxford College of Engineering,
	E TO I				Bengaluru



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### The Oxford College of Engineering Bommanhalli, Bangalore - 560068 ELECTRICIAN, PLUMBER & GARDENER AWARENESS PROGRAMME

### YEAR 2018-19

Date : 15<sup>th</sup> March 2019 Time : 10:00AM Venue: 6ch Floor Seminar Hall New Building, TOCE



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#### **Discipline Awareness Program for College Security People**

#### Report

Date:15/03/2019

The oxford college of engineering organizeda one day workshopon "Awareness Programme For Electrician, Plumber, Carpenter & Stp Workers" on 15

March 2019 at the seminar hall 5th floor new building. The main objective of this programme isto aware them about safety precaution, cleanliness, facility provided, quality of work, appearanceand behavior with employees. After that regarding various issues, problems being faced whileworking and how to cope up with it. Dr. Raju, HOD Department of Automobile the OxfordCollege of Engineering, Bengaluru resolved the queries asked by the employees. DiscussionSessionwas quite interesting &helpful to resolve manydoubts of theparticipants.



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2019-20

#### **Python Programming**



## THE OXFORD COLLEGE OF ENGINEERING

DEPARTMENT OF ISE

#### INVITES

For

#### CSI EXPERT LECTURE

On

"Python Programming one day workshop"

By

### Mr. Akash Gautam

(Director of Appstone Pvt Ltd, Bangalore)

# Date: 18<sup>th</sup> November 2019 Venue: IV Floor Seminar Hall Timings: 9:00 am to 04:15 am

1



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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING THE OXFORD COLLEGE OF ENGINEERING Hosur Road, Bommanahalli, Bengaluru-560 068 Website:<u>www.theoxford.edu</u> Email : <u>engprincipal@theoxford.edu</u> (Approved by AICTE, New Delhi, Accredited by NBA, New Delhi & Affiliated to VTU, Belgaum)

### Report on CSI-One Day Workshop on Python

The Department of Information Science & Engineering, The Oxford College of Engineering organized CSI-One day workshop on "PYTHON PROGRAMMING" on 18<sup>th</sup> November 2019, venue was new building 4<sup>th</sup> floor seminar hall. The guest was Mr. Akash Gautam, Director of Appstone, Pvt Ltd, Bangalore

The Event started with invocation song by Ms. Dharani 5<sup>th</sup> Semester ISE, followed by welcome address by Mr. Dawood 3<sup>rd</sup> Semester ISE, The CSI workshop was preceded by a short talk by Dr. R .Kanagavalli, HOD –ISE,TOCE . In her talk she emphasized the importance of the Python Programming in the real world.

The Lecture started around 09:00 AM and ended around 03:30 PM.

## Points discussed in Workshop are: -

Variables, Expressions & Statements.

Conditional Execution.

Functions.

Iterations.

Strings.

Files & Lists.

P

Dr. R. KANAGAVALLI PROFESSOR & HOD-ISE The Oxford College Of Engineering Bommanahalli, Hosur Main Road, Bangalore 560 068.



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**Balancing Personal and Professional life** 

Date :03.10.2019

THE OXFORD

Children's Education Society THEOXFORD COLLEGEOFENGINEERING

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#### Hosur Road, Bommanahalli, Bangalore -560068

#### **Department of Electrical and Electronics Engineering**

Organizing



Chief Patron Sri S.N.V.LNarasimha Raju President The Oxford Educational Institutions

**Balancing Professional life and** 

#### **Personal life**

on 03.10.2019

by Dr Tharaka Rami Reddy Professor /Dept of MBA The Oxford College of Engineering

Convener

Venue :5<sup>th</sup> Floor Seminar Hall Time :10AM Faculty Coordinators Prof. Nisha C Rani , Prof Resna S R Assistant Professor The Oxford College of Engineering

Dr Bharath V S HOD/EEE The Oxford College of Engineering



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**Report Balancing Personal and Professional life** 

#### Date :03.10.2019

The Oxford College of Engineering organized a one-day workshop on "Balancing Personal and Professional life" on3rd October 2019 at 5th floor new building. The main objective of this programme are

- Realize the advantages of a work-life balance.
- Identify the signs of an unbalanced life and the effects of it.
- Learn the techniques for a balanced lifestyle.
- Learn to communicate effectively and draw boundaries.
- Learn time management skills by setting the right priorities.
- Develop their goal-setting Skills.
- There was a fruitful discussion about various issues and the queries asked by the employees were

resolved by Prof.Tharaka Rama Reddy, Department of MBA. The Oxford College of Engineering, Bengaluru. Discussion Session was quite interesting & helpful to resolve many doubts of the participants.45 participants attended the program.



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Training in Internet surfing





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**Report on Training in Internet surfing** 

#### Date: 07.01.2020

The Oxford College of Engineering organized a one-day workshop on "Training in Internet surfing " on 07.01.2020 at 5th floor new building. The main objective of this programme areto make the participants aware of how to search on the internet, how to complete a form and how to create a google sheet and google form. There was a discussion about various issues and the queries asked by the employees were resolved Dr. Shashidhara, HOD Department of MCA, The Oxford College of Engineering, Bengaluru. Discussion Session was quite interesting & helpful to resolve many doubts of the participants.32 participants attended the program.



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2020-21

#### Advances in Artificial Intelligence and Machine Learning



		Eminent Speakers	
S1 no	Dates	Forenoon session (11 AM - 12:30 PM)	Afternoon session (2 PM - 3:30PM )
1	26-07-2021	Inauguration Ceremony & speaker session- Introduction to ML and Its Application Prof. Dr. M srinivas NIT, Silchar	Ensemble Learning Prof. Dr. Ramalingaswamy Cheruku NIT, Warangal
2	27-07-2021	Object Identification using Machine learning Prof. Dr. Neelima NIT, Nagaland	Recent Trends in AI Prof. Dr. Vimal Kumar IIM, Visakhapatnam
3	28-07-2021	The Role of Machine Learning in Cyber Security Prof. Dr. Mahendra Pratap Singh NIT, Surthakal	Decision Trees and Ensemble Learning Prof. Dr. K V kadambari NIT, Warangal
4	29-07-2021	Regression Analysis Prof. Dr. <u>Venkateswara</u> Rao Kagita NIT, Warangal	AI In Computer Vision Prof. Dr. U. <u>Srinivasulu</u> Reddy NIT, Tiruchirapalli
5	30-07-2021	Probable Research Opportunities in ML Prof. Dr. Ujwala Baruah NIT, Silchar	From Cloud Computing To Edge Computing Prof. Dr. Anandi Giridharan IISC, Bengaluru
б	31-07-2021	Outlier and Imbalanced Concept in ML Prof. Dr. <u>Manjubala Bisi</u> NIT, Warangal	Health Care using Machine Learning Prof. Dr. Pinki Roy NIT, <u>Silchar</u>



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#### **About Institution**

The Oxford College of Engineering (TOCE) is one of the most prestigious institutions run by the Children's Education Society. TOCE aims at carving competent students with extraordinary to face challenges of the continuous changing world. TOCE provides quality training in professional education in values in Engineering, Management and Computer Application streams. The College has 11 Research Centre's approved by VTU to carryout Ph.D. and Engineering Programmes. The institution is well known for its Consultancy & Research Development activities. Various Departments have financial assistance from reputed state (VGST/KSCST/VTU) and Central (DRDO-NRB,DAE-BRNS,AICTE,ICMR,NIF, DBTBIRAC) funding agencies to cater the need of young researchers and students in Engineering and Management.

#### About FDP

Faculty Development program mainly focuses on the recent advancement in Artificial Intelligence (AI) and Machine Learning (ML) in various fields such as Industry, research and development. The Faculties, research scholars can take the benefits of the programs. The eminent speakers at our program are from IIM, NIT's, and IISC. The major topics covered in our program are Object Identification using Machine Learning, AI in computer vision, and The role of Machine Learning in Cyber Security.

#### CHIEF PATRONS

Sri. S.N.V.L. Narasimha Raju Chairman, The Oxford Group of Institutions, Bengaluru

#### PATRONS

Dr. Amamath K Director, The Oxford Educational Institutions

Dr. N Malmurugan Director, The Oxford Educational Institutions

Dr. K M Ravi Kumar Director, The Oxford College of Engineering

Dr. N Kannan Principal, TOCE

#### ORGANIZING CHAIR

Dr. R CH. A Naidu HOD –CSE Department The Oxford College of Engineering

#### PROGRAM COORDINATORS

Dr. Nirmala M Professor, Department of CSE Mob #: +91-9902441541 Email

Prof. Florance G Assistant Professor, Department of CSE Mob #: +91-9791038039 Email

#### Prof. Rekha P Assistant Professor, Department of CSE Mob#:+91- 8892754661 Email Id:



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Faculty Development Program on" Advances In A landml" On 26<sup>th</sup>july 2021 -31<sup>st</sup>july 2021

#### About FDP:

Faculty Development program mainly focuses on the recent advancement in ArtificialIntelligence (AI) and Machine Learning (ML) in various fields such as Industry, research anddevelopment. The Faculties, research scholars can take the benefits of the programs. Theeminent speakers at our program are from IIM, NIT's, and IISC. The major topics covered inour program are Object Identification using Machine Learning, AI incomputer vision, and therole of Machine Learning in Cyber Security.

#### **Objectivesof theProgram:**

The main objective of this faculty development program is to provide the theoreticalfundamentals coupled with some hands-on knowledge on Artificial Intelligence and Machinelearning concept. It will help to upgrade the expertise and capabilities of the faculty membersof various Engineering institutions in India. It creates a climate for research and enthusiasmforacademicexcellence.

#### **ExpectedOutcome:**

Faculties will be trained in the new technologies, which will help them to enable theirstudentsto learn machinelearning.

#### Level of activity (Regional/National/International) and target audience

Regional

Faculties from various engineering colleges are the audience for this program.

OrganizingChairPerson Dr.RCH ANaidu HeadofCSEDepartment ProgramCoordinators Dr. MNirmala Professor, CSEDepartment

**Ms. FloranceG** AssistantProfessor, CSEDepartment

Ms. RekhaP AssistantProfessor, CSEDepartment



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#### **Inaugural Function:**

Date	Timings	ProgrammeDetails
	10:30 am-10:35 am	Welcomespeech byRekhaP
26-07-2021	10:35 am -10:40 am	Prayersong
	10:40 am -10:50 am	SpeechbyPrincipalsir
	10:50 am -11:05 am	Speechbyorganizingchairperson

#### **Programme Details:**

Dates	Timings	ProgrammeDetails		
26-07-2021	11am-12:30pm	Session1: Introduction to ML and its Application		
		Prof. Dr. MSrinivasNIT, Warangal		
	2pm-3:30pm	Session 2: Ensemble LearningProf. Dr.		
		Ramalingaswamy CherukuNIT, Warangal		
27-07-2021	11am-12:30pm	Session3: Object Identification using Machine learning		
		Prof.Dr. NeelimaNIT, Nagaland		
	2pm-3:30pm	Session 4: Recent Trends in AIProf.Dr.		
		VimalKumarMIIM, Visakhapatnam		
28-07-2021	11am-12:30pm	Session 5: The Role of Machine Learning		
		inCyberSecurity		
		Prof. Dr. Mahendra Pratap SinghNIT,		
		Surthakal		
	2pm-3:30pm	Session 6: Decision Trees and Ensemblelearning		
		Prof.Dr. KVkadambariNIT,		
		Warangal		
	11am-12:30pm	Session7: Regression Analysis Prof.Dr.		
29-07-2021		VenkateswaraRaoKagitaNIT, Warangal		
	2 pm-3:30pm	Session 8: AI in Computer VisionProf.		
		Dr. U. Srinivasulu ReddyNIT,		
		Tiruchirapalli		
30-07-	11am-12:30pm	Session 9: Probable Research Opportunities inML		
2021		Prof.Dr. UjwalaBaruahNIT, Silchar		
	2pm-3:30pm	Session10: From Cloud Computing to Edge		
		Computing Prof.AnandiGiridharanIISC, Bengaluru		
31-07-2021		Session11: Out lier and Imbalanced Conceptin ML		
	11am-12:30pm	Prof.Dr. ManjubalaBisiNIT,		
		Warangal		
	2pm-3:30pm	Session12: HealthCareusingMachineLearning		
		Prof. Dr. Pinki RoyNIT, Silchar		
	3:30pm-4pm	Valedictoryfunction		



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#### ValedictoryFunction:

Valedictory Function for Faculty Development Program on "Advances in Artificial Intelligence and Machine Learning "held from 26<sup>th</sup> July -31<sup>st</sup> July 2021.

#### ProgramAgenda:

Date	Timings ProgramDetails	
	3:30pm -3:40pm	WelcomespeechbyRekhaP
	3:40pm -3:50pm	SpeechbyHODsir
	3:50pm-3:55pm	Feedbackfromparticipants
	3:55pm -4:00pm	SpeechbyPrincipalsir
31 <sup>st</sup> -JULY-2021	4:00pm-4:05pm	Photosession
	4:05pm-4:15pm	Voteofthanks

#### **Eminent Speakers:**

Name	Designation	Organization	Activity
Dr. MSrinivas	Professor	NIT, Warangal	Keynotespeaker
Mrs. Anandi Giridharan	PrincipalResearch Scientist	IISC, Bengaluru	Sessionspeaker
Dr. MahendraPratapSingh	Professor	NIT, surthakal	SessionSpeaker

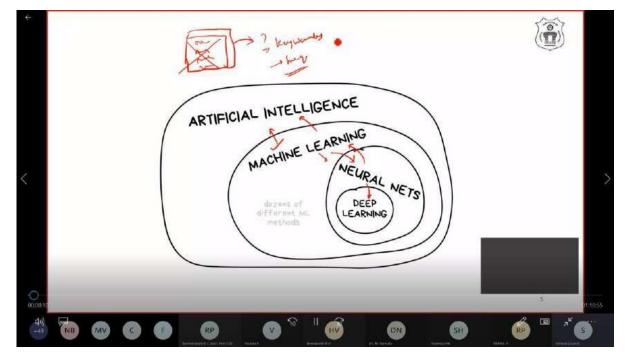


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#### **Introduction to ML and Applications**

# Speaker: Dr M Srinivas Date 26-7-21FN

MachineLearningisafieldincomputersciencethatlearnsfromexperiencewithoutbeingprogramm ed.It is a part of Artificial Intelligence, or we can say that machine learning is a sub topic of ArtificialIntelligence. The science behind ML is to make computers perform actions by themselves. A MachineLearning algorithm is a generic program that will understand the data, and build models with that data. These models are available for the end users to carry out tasks. Initially, Machine Learning was just aboutpattern recognition. It was also defined as the ability of the computers to learn through an iterative processwithout being programmed explicitly. With increasing data day by day, and invent of big data, machinelearning has taken a fresh turn. Now machine learning algorithms are able to automatically calculatehighly complex calculations over big data. Some major example in this field includes fraud detections, online recommendations, etc. These mathematical calculations are being done at a high speed and accuracy.



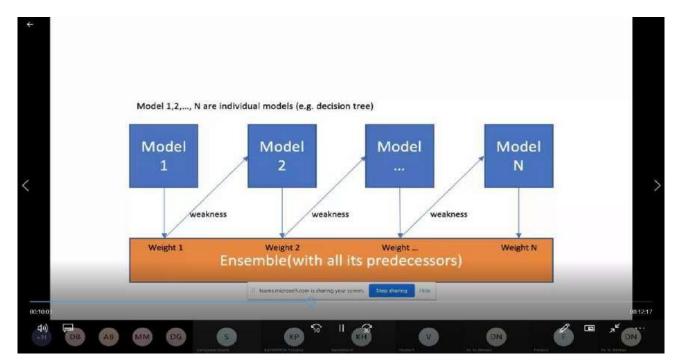


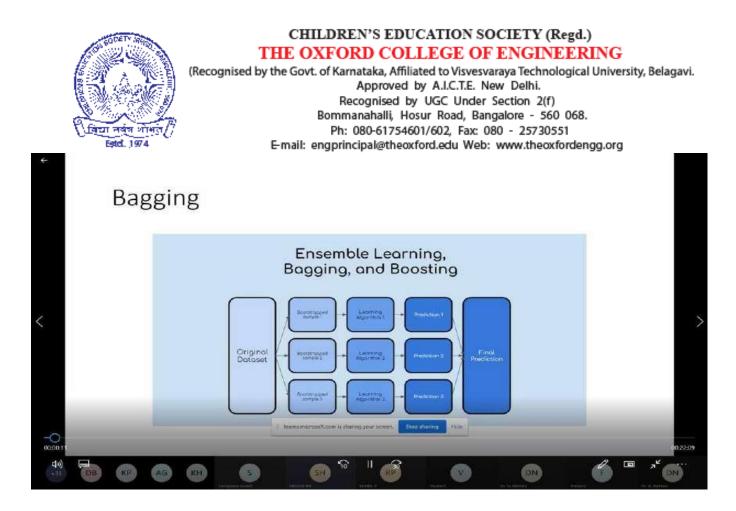
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Speaker: Dr. Ramalingasamy Cheruku

#### Date: 26-7-21 AN

Ensemble learning refers to algorithms that combine the predictions from two or more models. Althoughthere is nearly an unlimited number of ways that this can be achieved, there are perhaps three classes of ensemble learning techniques that are most commonly discussed and used in practice. Their popularityis due in large part to their ease of implementation and success on a wide range of predictive modeling problems. There as on ensemble learning is efficient is that your machine learning models work differently. Each model might perform well on some data and less accurately on others. For a machine learning ensemble, you must make sure your models are independent of each other or as independent of each other as possible. One way to do this is to create your ensemble from different algorithms, as in the above example. Another ensemble method isto use instancesofthe same machine learning algorithmsand train them on different data sets. For instance, you can create an ensemble composed of 12 linearregressionmodels, each trained on asubsetof yourtrainingdata.







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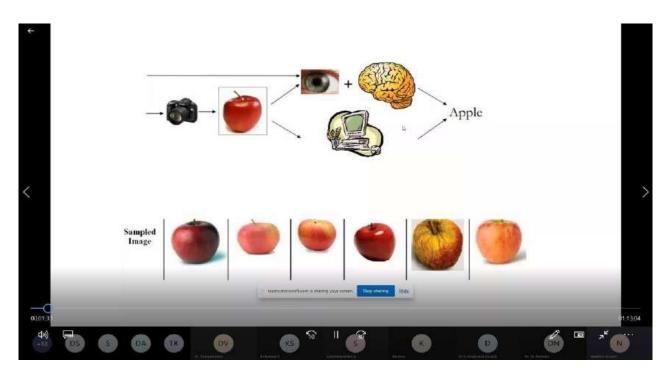
**Object identification using Machine Learning** 

Speaker: Dr. Neelima

Date:27-7-21FN

An image classification or image recognition model simply detects the probability of an object in animage. In contrast to this, object localization refers to identifying the location of anobject in the image. An object localization algorithm will output the coordinates of the location of an object with respect to theimage. In computer vision, the most popular way to localize an object in an image is to represent itslocationwith the helpof boundingboxes.

A better algorithm that tackles the issue of predicting accurate bounding boxes while using the convolutional sliding window technique is the YOLO algorithm. YOLO standsfor youonlylookonce and was developed in 2015. It is popular because it achieves high accuracy while running in realtime. This algorithm is called so because it requires only one forward propagation pass through thenetwork to make the predictions. Learned to combine the concept of classification and localization with the convolution implementation of the sliding window to buildan object detection system.





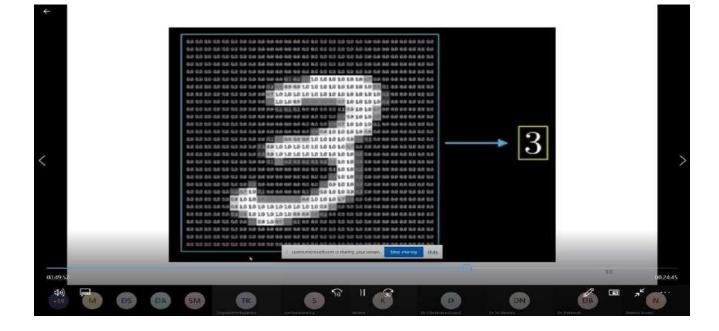
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Speaker: Dr. VimalKumarM

# Date: 27-7-21 AN

In order to perform any human activity like cooking, household chores, etc., a RL agent needs to executelong sequence of instructions and generalise for new unseen subtasks. Sometimes, there would be otherunexpected instructions like low battery, etc., which needs a deviation to be able to finish the rest of thesubtasks. To achieve these goals, a generalised approach is proposed which takes sequence of tasks innatural language and executes the subtasks mostly sequential. For completing a multiple set of tasks, we need a policy that can understand the subtasks and still finish the tasks optimizing for the overall reward.

In order to regularise deep neural networks, several methods like batch normalisation, whitening neuralnetworks (WNN) areused. To apply whitening, the computational overhead of building covariance matrix and solving SVD plays a bottle neck. Extending the class of faster computations, like FFT, Winograd, a Memory-efficient Computation (MEC) which lowers memory requirement and improves the convolution process is suggested. MEC takes rolling subsets of columns and expands them into rows toform a smaller matrix. This process is repeated along with Kernel matrix multiplication to produce efficient computation.





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The Role of Machine Learning in Cyber Security

Speaker: Dr. Mahendra Pratap singh

Date:28-7-21FN

The future of cyber security is not about man OR machine it is about man AND machine. In chess, a teamof amateurs operating even standard desktop PCs dramatically outperforms both the strongest humanplayers and the most powerful supercomputers in isolation. The secret to actionable threat intelligence liesin playing to theindividualstrengthsof machinesand human analysts. Machinesper form theheavylifting data aggregation, pattern recognition, etc. and provide a manageable number of actionable insights. From there, human analysts make decisions on how to act. One of the biggest barriers to humanintelligence is language. With modern natural language processing, machines can process text irrespectiveof language, including slang and industry jargon. The battle in threat intelligence is balancing time andcontext. Analysts need intelligence promptly, but they also need enough information to decide on how to act. This is only possible using modern AI and machine-learning processes. Specifically, Alencompasses any case where a machine is designed to complete tasks which, if done by a human, would require intelligence.





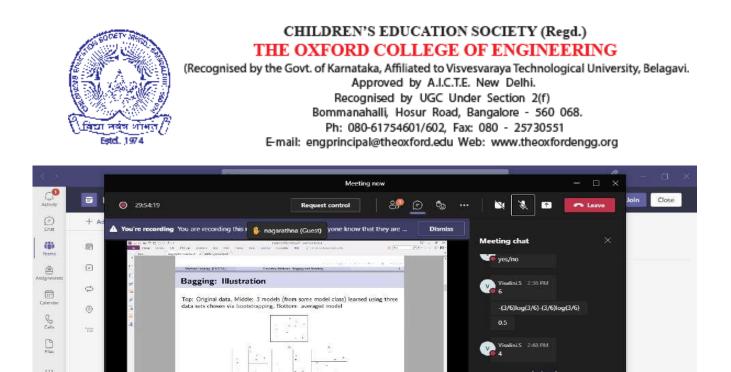


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**Speaker:** Dr. Kadambari

# Date: 28-7-21 AN

Ensemble methods, which combines several decision trees to produce better predictive performance thanutilizing a single decision tree. The main principle behind the ensemble model is that a group of weaklearners come together to form a strong learner. Bagging or Bootstrap Aggregation is used when our goalis to reduce the variance of a decision tree. Here idea is to create several subsets of data from trainingsample chosen randomly with replacement. Now, each collection of subset data is used to train theirdecision trees. As a result, we end up with an ensemble of different models. Average of all the predictions from different trees are used which is more robust than a single decision tree. Random Forest is anextension over bagging. It takes one extra step where in addition to taking the random subset of data; italso takes the random selection of features rather than using all features to grow trees. When having manyrandom trees, it called Random Forest. Boosting is another ensemble technique to create a collection of predictors. In this technique, learners are learned sequentially with early learners fitting simple models to the data and then analyzing data for errors. In other words, fit consecutive trees or random sample and atevery step, the goal is to solve for net error from the prior tree. When an input is misclassified by ahypothesis, its weight is increased so that next hypothesis is more likely to classify it correctly. Bycombining thewholeset attheend convertsweak learners into better performing model. Gradient Boosting is anextension overboostingmethod.



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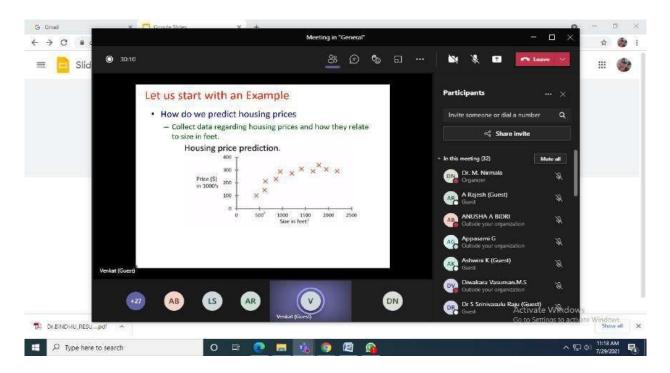
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### **Regression Analysis**

**Speaker**: Dr. VenkateswaraRao

Date: 29-7-21FN

Regression analysis is a set of statistical methods used for the estimation of relationships between adependent variable and one or more independent variables. It can be utilized to therelationship variablesandformodeling assess the strength of between thefuturerelationship between them. Simple linear regression is a model that assesses the relationship between a dependent variable and an independent variable. Multiple linear regression analysis is essentially similar to the simple linear model, with the exception that multiple independent variables are used in the model. Regression analysis comes withseveral applications in finance. For example, the statistical method is fundamental to the Capital AssetPricing Model (CAPM). Essentially, the CAPM equation is a model that determines the relationshipbetween the expected return of an asset and the market risk premium. The analysis is also used to for ecast there turns of securities, based ondifferent factors, orto forecasttheperformanceofa business.



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Speaker: Dr. U. SrinivasaluReddy

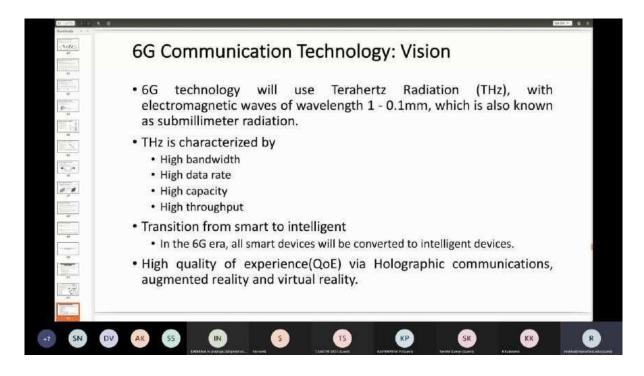
Date: 29-7-21 AN

As computer vision evolved, programming algorithms were created to solve individual challenges. Machines became better at doing the job of vision recognition with repetition. Overthe years, there has been a huge improvement of deep learning techniques and technology. Wenow have the ability to program supercomputers to train themselves, self-improve over time andprovide capabilities to business season line applications. Computer visionisnotjustaboutconverting a picture into pixels and then trying to make sense of what is in the picture throughthose pixels. We have to understand the bigger picture of how to extract information from those pixels and interpret what they represent. Convolutional Neural Net work is a class of deep feed for ward neural networks that is largely inspired by the biological system, where the connectivity pattern between neurons depicts where each individual cortical neuron responds to stimuli only in the restricted region of the visual field known as receptive field, i.e., restrictive



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Sub area of the input. The cortical neurons of different fields over lap in such away that they collectively represent the entire image.





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**Probable Research opportunities in Machine Learning** 

Speaker: Dr. UjwalaBarauh

Date:30-7-21FN

Machine learning, especially its subfield of Deep Learning, had many amazing advances in the recentyears, and important research papers may lead to breakthroughs in technology that get used by billions ofpeople. We present a residual learning framework to ease the training of deep neural networks that aresubstantially deeper than those used previously. We explicitly reformulate the layers as learning residualfunctions with reference to the layer inputs, instead of learning unreferenced functions. We providecomprehensive empirical evidence showing that these residual networks are easier to optimize, and cangain accuracy from considerably increased depth. Training Deep Neural Networks is complicated by thefact that the distribution of each layer's inputs changes during training, as the parameters of the previouslayers change. We refer to this phenomenon as internal covariate shift, and address the problem bynormalizing layer inputs. Applied to an image classification model, Batch Normalization achieves the same accuracy with 14times fewer training steps, and beats the original model by assign if I cant margin.





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Speaker: Dr. AnandhiGiridharan

Date: 30-7-21 AN

Edge Computing can support companies with computing tasks that cannot be done in the cloud and offersclear advantages when dealing with low latency, connectivity, security, or privacy, and transmitted datavolumes are an issue. Edge and distributed cloud architectures will increase the speed of data processing and reduce time lag. Edge computing, alone orin combination with Cloud Computing, will play a key role to enable technologies like autonomous vehicles, digital factories, smart cities, digital health, smarttracking and much more. It is already starting to reshape enterprise computing and it can play a vital rolein IT architectures. All the industries that need to perform the computing tasks as close to where data isgathered as possible will benefit from Edge Computing. Edge Computing refers to the computations thattake place at the 'outside Edge' of the internet, as opposed to Cloud Computing, where computationhappens at a central location. Edge Computing typically executes close to the data source, for exampleonboard or adjacent to a connected camera. A self-driving car is a perfect example of Edge Computing. Inorder for cars to drive down any road safely, it must observe the road in real-time and stop if a person walks infront of the car. In sucha case, processing visual information and making a decision is done at the Edge, using Edge Computing.



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# **Outlier and Imbalanced Concepts in ML**

Speaker: Dr. ManjubalaBisi

Date: 31-7-21FN

Machine Learning algorithms tend to produce unsatisfactory classifiers when faced with imbalanceddatasets. For any imbalanced data set, if the event to be predicted belongs to the minority class and theevent rate is less than 5%, it is usually referred to as a rare event. The conventional model evaluation methods do not accurately measure model performance when faced with imbalanced data sets. Standard classifier algorithms like Decision Tree and Logistic Regression have a bias towards classes which havenumber of instances. They tend to only predict the majority class data. The features of the minority classare treated as noise and are often ignored. Thus, there is a high probability of misclassification of theminority class as compared to the majority class. Evaluation of a classification algorithm performance ismeasured by the Confusion Matrix which contains information about the actual and the predicted class. However, while working in an imbalanced domain accuracy is not an appropriate measure to evaluate model performance. Dealing with imbalanced datasets entails strategies such as improving classificationalgorithms or balancing classes in the training dataor data preprocessingbefore providing the data asinput to the machine learning algorithm. The later technique is preferred as it has wider application. The main objective of balancing classes is to either increasing the frequency of the minority class or decreasing the frequency of the majority class. This is done in order to obtain approximately the samenumberof instances for both theclasses.



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i (NITW) (Guest) Dr. Manjubala Bisk (NITW)	FDP on Advances in AI and ML 31/07/2021	23/41



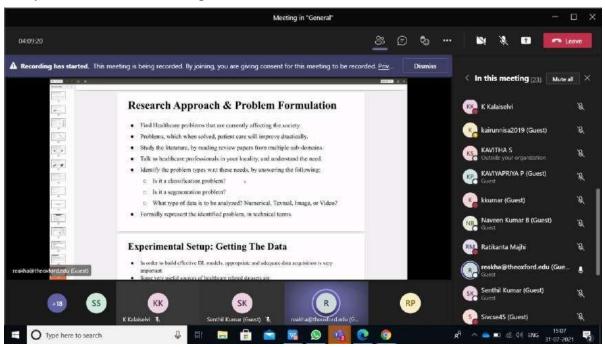
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Speaker: Dr. Pinkiroy

# Date: 31-7-21 FN

Machine learning, simply put, is a type of artificial intelligence when computers are programmed to learn information without human inter vention. In machine learning, the development of the under lying algorithms relies on computational statistics. Computers are provided data and then the computers learnfrom that data. The data actually teaches the computer by revealing its complex patterns and underlying algorithms. The larger the sample of data the machine is provided, the more precise the machine's outputbecomes. Machine learning in healthcare is becoming more widely used and is helping patients andclinicians in many different ways. The most common healthcare use cases for machine learning areautomating medical billing, clinical decision support and the development of clinical care guidelines. There are many notable examples of machine learning and healthcare

concepts being applied in medicine in radiology, deep learning in healthcare identifies complex patterns automatically, and helps radiologists make intelligent decisions reviewing images such as conventional radiographs, CT, MRI, PETimagesand radiology reports. The performance of machine learning-based automatic detection and diagnosissystems has shown to be equivalent to that of an experienced radiologist. Google's machine learningapplications in healthcare were trained to detect breast cancer and achieved 89 percent accuracy, on par orbetter than radiologists. These are just a few of examples of the many uses of machine learning inhealthcare.





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The programme ended with valedictory function. The Organizing chair Dr. R CH A Naidu, HOD of CSE department TOCE, consolidating the 6days FDP program. DR.N. Kannan, Principal TOCE joined thevaledictory function and gave his valuable speech. He appreciated the participants, the program organizerandcoordinators The forum was opened for the participants to deliver their feedback. Finally, the programended with vote of thanks.

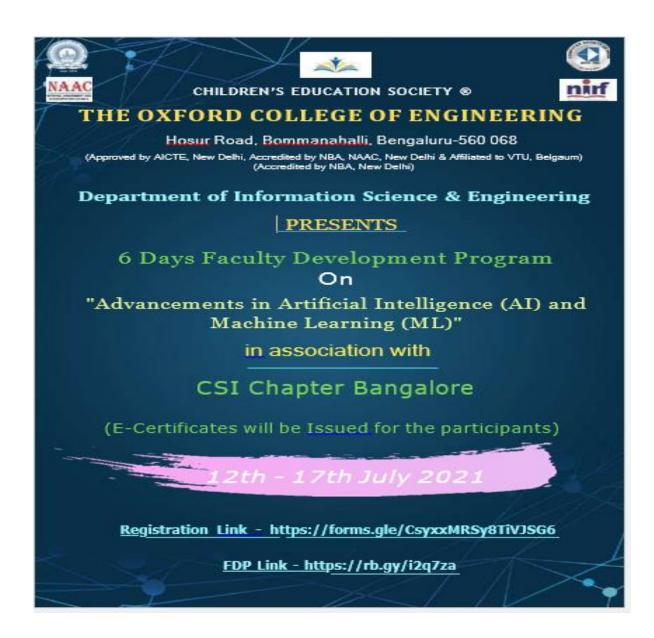




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Advancements in Artificial Intelligence and Machine Learning - ISE

Date:12-7-2021/17-7-2021





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#### Eminent Speakers S.no Dates 11 AM - 12:30 PM (FN) 2 PM to 3:30 PM (AN) Inauguration Ceremony and Key note Data Science speaker session by Prof.Dr.Vinay Prof. Dr. Ciro Rodriguez R. 1 12-07-21 Kulkarni Universidad Nacional Mayor de San Adjunct Faculty-IIT Marcos UNMSM Lima Peru. Bombay South America. Genetic Algorithm Computer Vision Prof. Dr. Layak Ali -Central University Prof. Dr. Mahesh Kumar 2 H. Kolekar-IIT-Patna 13-07-21 Karnataka (CUK) NLP for beginners with the light Data Science or on modern research avenues Deep learning Prof.Dr.Shashidhar G Koolagudi Prof. Dr. P Badha 3 14-07-21 - NIT Surathkal Krishna - NIT Warrangal Hands-on Session on Human computer interaction using machine Learning Brain Computer 4 Prof. Dr. Damodar Reddy Prof. Dr. Damodar 15-07-21 Edla-NIT Goa Reddy Edla - NIT Goa Learning Analytics Hands-on Programming with Python Prof. Dr. Arvind 5 Mr. Chetan Adhikari Kewelakar. 16-07-21 - DBATU University -- TCS Lonere Data Analysis for COVID-19 Pandemic 6 Prof.Dr.Parikshit N. Mahalle 17-07-21 Valedictory Session - Vishwakarma Institute of information technology, Pune.



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FDP on Recent Trends in Photonics

# About Institution

The Oxford College of Engineering (TOCE) is one of the most prestigious institutions run by the children's Education Society. TOCE aims at carving competent students with extraordinary to face challenges of the continuous changing world. TOCE provides quality training In professional education in values in Engineering, Management and Computer application streams. The College has 11 Research Centre's approved by VTU to carryout Ph.D. and M.Sc. Engineering Programmes. The institution is well known for its Consultancy & Research and Development activities. Various Departments have financial assistance from reputed state (VGST/KSCST/VTU) & Central (DRDO-NRB, DAE-BRNS, AICTE, ICMR, NIF, DBTBIRAC) funding agencies to cater the need of young researchers and students in engineering and management.

# About FDP

Faculty Development program focuses on the recent and advanced trends in Artificial Intelligence in industry, research and development. FDP aims that all the Faculties, research students (M. TECH and PHD) should take the benefits of the advance trends in AI. The FDP's eminent speakers are from IITs, NITs, Central University of Karnataka (CUK) and from reputed institutes and Industries. The following topics covered in FDP are Data Science. NLP.Computer Vision. Use of AI for Cybersecurity Applications, Tensorflow, Genetic Algorithm. Deep Learning, Machine Learning application in remote sensing. Case study in AI and ML, Hands-on programming with Python.

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# ORGANIZING CHAIR

Dr. R.Kanagavalli Professor and HOD -ISE Department

CONVENOR/PROGRAM COORDINATOR

Dr. Vanajaroselin E. Chirchi Professor ISE Department

# FACULTY COODINATORS

Prof. Vidhya Venkatesh Prof. Sandhya Rani



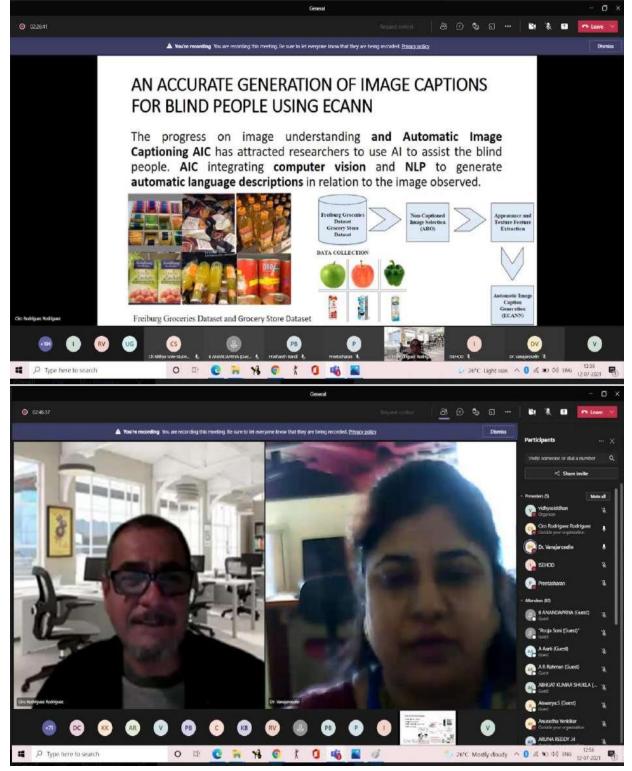
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# Repoton FDP on "Advancements in AI and ML"

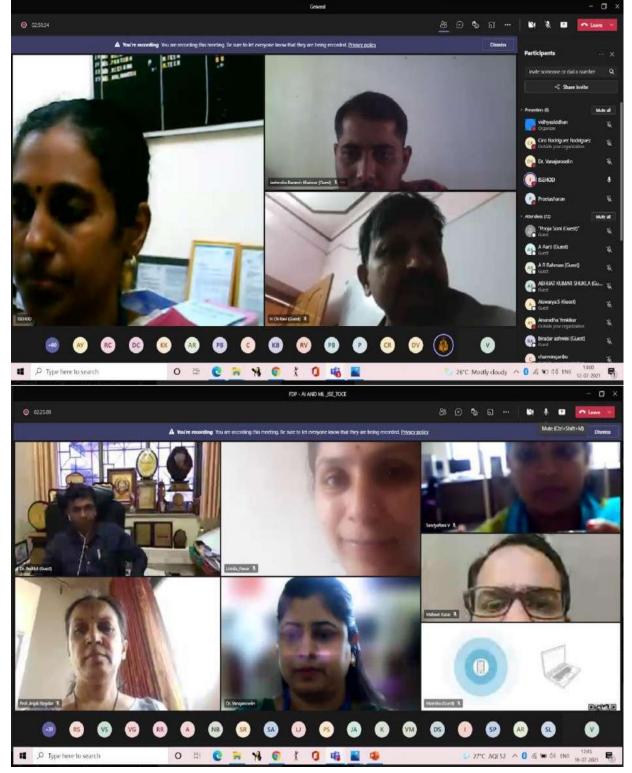
A one-week Faculty Development Program (FDP) on "Advancements in AI and ML" wasorganized at the Department of Information Science Engineering, The Oxford College of Engineering Bangalore from 12<sup>th</sup>July 2021 to 17<sup>th</sup>July 2021 in association with CSI ChapterBengaluru.



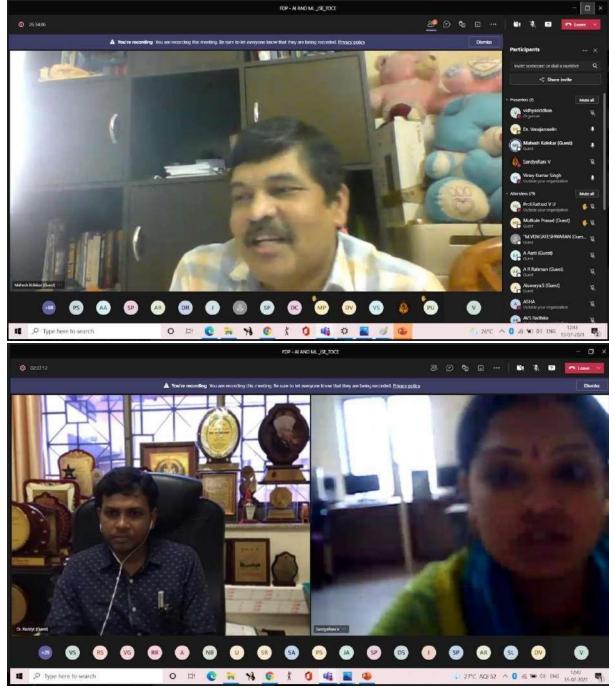


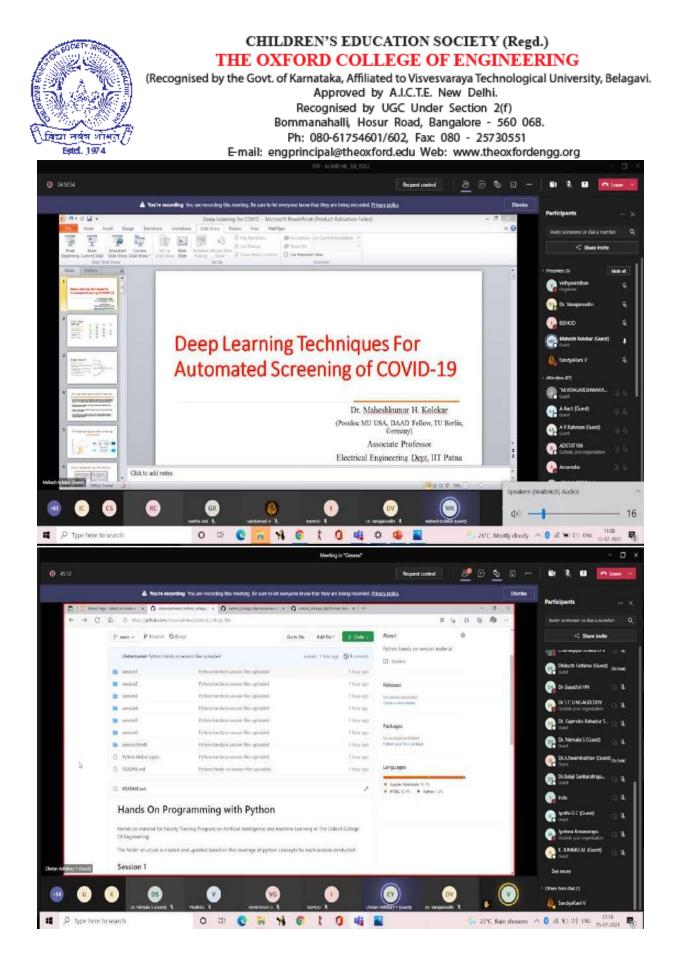


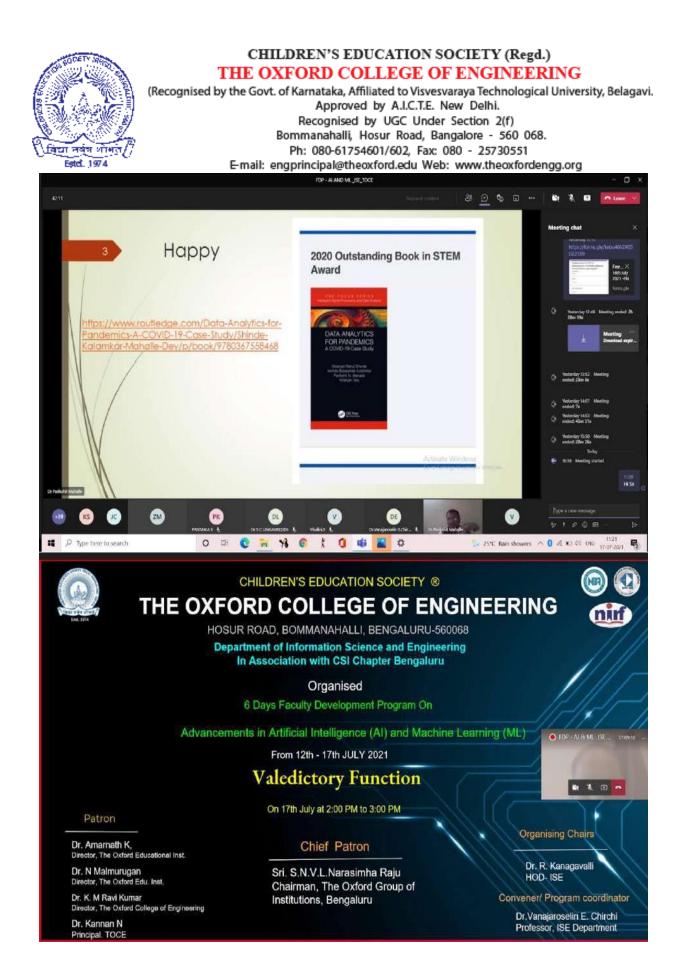












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#### **Report On**

# **One Week Faculty Development Programon**

# Recent Trends in Photonicsjune14-19,2021

at

# **Department of Electronics and Communication Engineering**

A one-week Faculty Development Program (FDP)onRecentTrendsinPhotonicswasorganized at the Department of Electronics & Communication Engineering, The OxfordCollege of Engineering Bangalore from June-14, 2021 to June- 19, 2021 in association withIEEE Photonics Society, Bangalore Chapter as the academic partner. The main objective ofthisprogramistomaketheparticipantsawareoftherecenttrendsinphotonicssothattheycanup date their knowledge in this area and explore for further research. It was also expected thatas the participants are all faculties of different educational institutions, the knowledge gained will be shared and further passed on to the students. The FDP was attended by168participantsfromfacultymembers&Research Scholars of ECE, EEE, CSE, ISE, ME, Biomedical engineering, Medical Electronics, BasicSciencedepartment ofdifferent colleges.

Ms. Mittu George hosted the inauguration programme began with a prayer song by Ms. Srividya.Dr. ManjuDevi, Head of the Department of Electronics and Communication Engineering welcomed all the respected dignitaries and participants. Hon. Principal Dr. NK annan shared is views withthefacultyparticipantsthatiffacultywantstodevelopthemselves and their students, then attending such faculty development programmes would enhance their skills of teaching concepts practically. Sir, furthersharedthatithelpstoimprovethe performance of faculty in teaching and highlighted the importance and objectives oforganizing faculty development programmes. Dr. Preeta Sharan, Professor, ECE dept and Co-Convener, emphasized the benefits of such kind of resourceful and explained the importance of photonics in engineering. The introduction to the Keynote speaker was given by FDPCoordinatorDr. A Chrispin Jiji, AssociateProfessor, ECEdept.



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# Brochure of Six Days Faculty Development Programon Recent trends in Photonics







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Key note address by Dr. Manpreet Singh Manna

On Day1 the keynote address was delivered by Dr. ManpreetSingh Manna, Former Director AICTE, Prof. SLIET Longowal. The introduction to the Keynote speaker was given by FDP Coordinator Dr. A Chrispin Jiji, Associate Professor, ECE dept. In his talk he spoke on theRoad map for Engineers to become Entrepreneur.



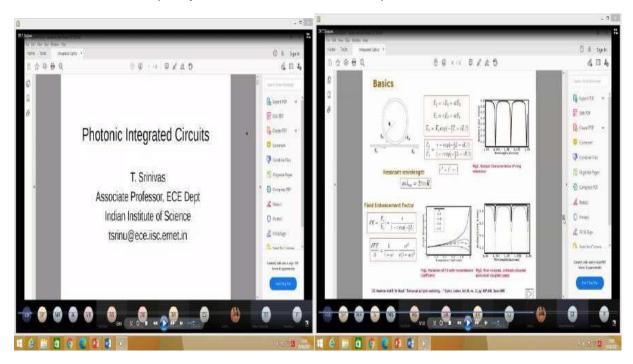




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Technical session by Dr.T. Srinivas

The next technical session was conducted by Dr. T Srinivas, Faculty, IISc, Bangalore. Hespoke on Photonic Integrated Circuits and the participants learnt about the working and use ofthese optical circuits. The introduction to the Keynote speaker was given by FDP CoordinatorDr.A Chrispin Jiji, AssociateProfessor, ECE dept.





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# Technical sessionbyDr.GaganKumar

On Day2 Session1 was conducted by Dr. Gagan Kumar, Faculty, IIT Guwahati, Assam, Hespoke on the Terahertz Plasmonics Guided Wave Devices. The participants learnt about the different research work carried out in this field and the different areas yet to be explored in their domain using this technology. The introduction to the Key note speaker was given by FDP CoordinatorDr. A Chrispin Jiji, AssociateProfessor, ECE dept.

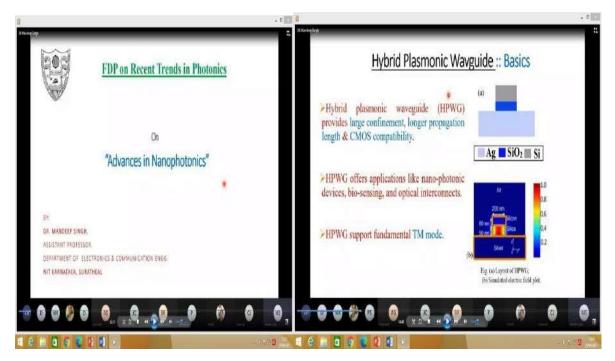




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Technical session by Dr. MandeepSingh

Session 2 was conducted by Dr. Mandeep Singh, NIT Surathkal Karnataka & VisitingScientist at IISc, about Advances in Nanophotonics. In this session participants were learnedaboutCOMSOLsoftware.TheintroductiontotheKeynotespeakerwasgivenbyFDPCoordina torDr. R. BhargavaRama Gowd, Associate Professor, ECEdept.





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.

On Day 3 Session 1 was conducted by Dr. S K Sinha, Retired Professor IISC, Founder andChairman at Lab to Market in IISC. He spoke about Health Monitoring of Indian Railwaysystem using Optical Sensor and also discusses the importance of Photonics in RailwaySystem. The introduction to the Keynote speaker was given by FDP Co Convener Dr. PreetaSharan, Professor, ECE dept.

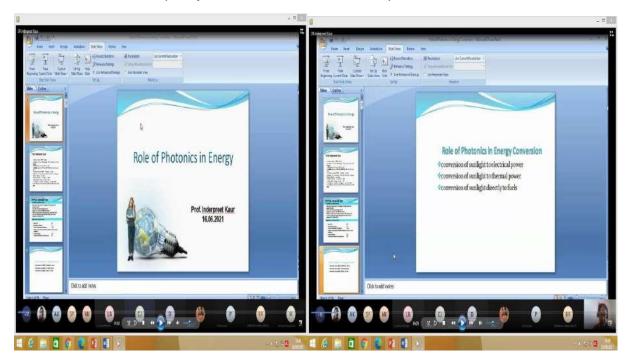




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Technical session by Dr. InderpreetKaur

Session 2 was conducted by Dr. Inderpreet Kaur, Adjunct Faculty, GNEC Ludhiana, Topic: Role of Photonics in Energy. In this session participants have learned about various energy resources in Photonics. The introduction to the Key note speaker was given by FDP Coordinator Dr. A Chrispin Jiji, AssociateProfessor, ECE dept.



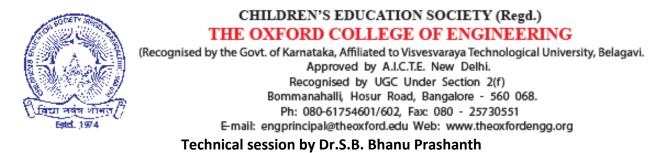


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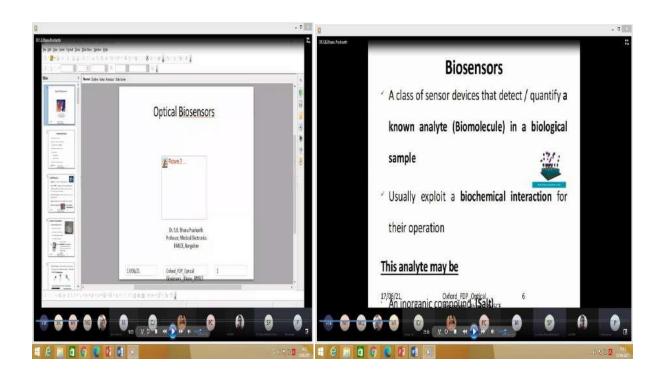
Technical sessionby Dr.P.C. Srikanth

On Day 4 Session 1 was conducted by **Dr. P C Srikanth**, Professor & Former Head, Dept of ECE, Malnad College of Engineering, Hassan. He spoke about Quantum concepts and applications. In this session participants have learned about the new emerging technique called quantum concepts. The introduction to the Key note speaker was given by FDP Coordinator Dr.R. BhargavaRama Gowd, AssociateProfessor, ECE dept.





Session2wasconductedby **Dr.S.B. BhanuPr ashanth**, Profess or in Medical Electronics B.M.S. College of Engineering Bangalore. He spoke about Optical based Biosensor. In thissession participants have learned about the basis of various Bio sensors. The introduction to the Key note speaker was given by FDP CoConvener Dr. PreetaSharan, Professor, ECE dept.

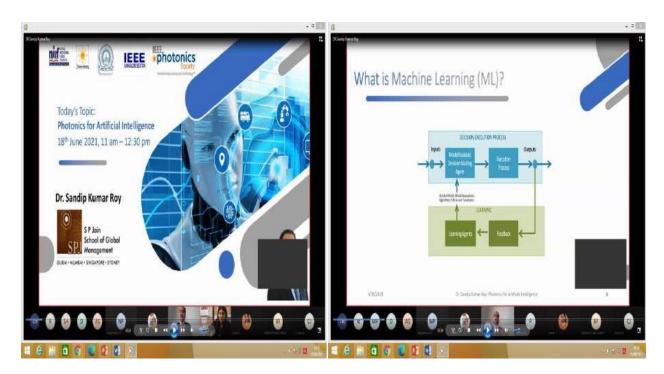




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Technical session by Dr. Sandip KumarRoy

On Day5 Session1 was conducted by **Dr. SandipKumarRoy**, Professor, SPJain School of Global Management, Dubai. He spoke about Photonics for Artificial Intelligence. In thissession participants have learned about how artificial intelligencerelated Photonics.





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Technical session by Dr. Maneesh C Srivastava

Session 2 was conducted by **Dr. Maneesh C Srivastava**, HOD Mechanical Engineering, Amity University Lucknow Campus, India. He spoke about Photonics in Health Monitoring Concepts. In this session participants have learned about the IOT based devies. The introduction to the Key note speaker was given by FDP Coordinator Dr.R. BhargavaRamaGowd, Associate Professor, ECE dept.





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Technical session by AnupmaThakur

On Day 6 Session 1 was conducted by **Anupma Thakur**, DST-INSPIRE Senior Research Fellow, CSIR-CSIO, Chandigarh. In this session participants were taught about Green Hydrogen Production from Renewable Energy using Nano-photonics. The introduction to the Keynote speaker was given by FDP Coordinator Dr. A Chrispin Jiji, Associate Professor, ECE dept

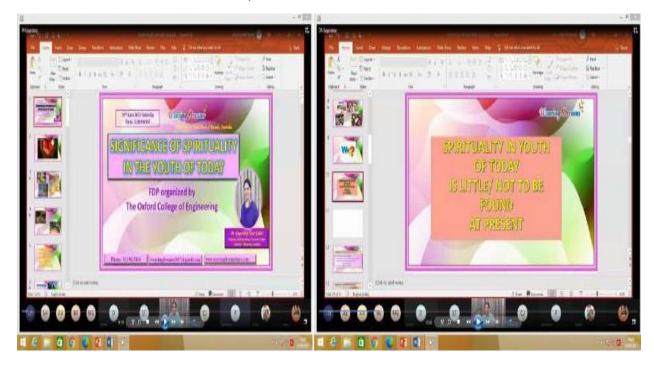




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#### **Technical sessionby Dr. Gagandeep**

Session2 was conducted by **Dr. Gagandeep,** AssociateProfessor-IITM, New Delhi; Corporate Trainer, Founder-Weaving Dreams.She spoke about the Significance of Spirituality in the Youth of Today. The introduction to the Keynote speaker was given by FDP CoConvenerDr. Preeta Sharan, Professor, ECE dept.





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The FDP was concluded by the valedictory function conducted on Day 6 afternoon 3.00pm. The session started with the welcome speech of Dr. ManjuDevi, HOD, ECE Dept. She gave a warm welcome to the gatherings and to the dignitaries. The overview of the FDP was delivered by Dr. Preeta Sharan, Co-Convenor ECE Dept. The Principal Dr. N Kannan appreciated theeffort of the organizing team in managing the FDP so well. Few Speakers and participantssharedtheirwonderfulexperienceduringtheFDP.Thevaledictoryfunctionendedbyt heVoteofThanks by Mrs. LayaTojo, Assistant Professor, ECEDept.

**Outcome:** All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with them ostwidely used advance technologies in this domain. On the whole the FDP received a lot of positive feedback from participants and it paved the way for participants to implement their Research Ideas in Recent Trends in Photonics.



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FDP on Recent Trends in Electrical Engineering





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#### About The Institution

The Oxford College of Engineering is one of the mostprestigious Institutions in Bengaluru that provides quality teaching and training in professional courses in various streams of Engineering, post graduate programs in Technology (M Tech), Computer Application (MCA) and In Business Administration (MBA) and Research (PDD). The college campus is set in a sprawling 6.25 acres of land, ideal for education in a serene environment with buildings over 65,000 ag meters of built-up area spread over floors for academic purposes. The college is situated along information Technology corridor in National Highway towards Electronics City (N.H. 7), 1.0 km from the slik board. The college has a dedicated and highly qualified feam of faculty who offer Quality education to the students as per the academic scheme of VTU. The Oxford College of Engineering offers 10 Under Graduate programs including B Arch, 10 M Tech programs, MBA, MCA &

12 Research Centre leading to Ph D / M Sc. In Engg. The college has excellent placement.

#### About EEE Department

The Electrical and Electronics Engineering Department was established in the year 2001 with an Intake of 60 students for the Undergraduate program (BE). At present the Intake has been enhanced to 120 students, a Post Graduate program (M\_Tech) in Power Electronics course was started in 2008 with an Intake of 18 students. The VTU Research Centre of the department was started during 2014 and has seen good progress as many scholars have registered for Ph.D. The Electrical and Electronics Engineering Department wassocredited by "NATIONAL BOARD OF ACCREDITATION (INBA)"

tor, the first time in the year 2007 and the Accreditation was renewed in the year 2016. The Department of Electrical and Electronica Engineering got NBA Accreditation for the Third time for the duration of three years from 2018 to 2021. The Department is also accredited by NAAC.

#### OBJECTIVES OF THE FDP

The proposed faculty development programme provides a proper platform to participate for discussion and presentation of the latest technologies and discoveries in the field of Electrical Engineering. This is a quality course providing forum for academicians and industrial professionals to exchange their knowledge and state of art of aforesaid areas. The course content will be taught by eminent experts in the field, having adequate teaching and industrial experience. This course will offer a unique opportunity to the researchers, academicians and students working in this area to acquire knowledge in current and relevant topics in Electrical Engineering. This FDP provides deeper insight and knowledge to the participants about the recent advances in ElectricalEngineering field.

#### OUTCOMES OF THE EDP

The Participants will be able to start using the techniques for their research & teaching

 They can get in depth knowledge on recent advancement in industry and research

Vision & Mission of EEE Department

#### sion.

Equipping Electrical and Electronics Engineering professionals in the cutting edge technologies of Electrical Science to meet the needs of the ever-changing world.

#### Mission:

 M1: To learn and experiment most recent innovations in Electrical and Electronics Engineering related to industry.
 M2: To provide state of art facilities for the continuous improvement in teaching-learning process and research activities in multidisciplinary areas.
 M3: To emphasis ethics, leadership, entrepreneurship skilled

M3: To emphasis ethics, leadership, entrepreneurship skilled Electrical and Electronics Engineers. Schedule of the One Week Online Faculty Development Programme

programme provides a ussion and presentation coveries in the field of y course providing forum sionals to exchange their said areas. The course perts in the field, having enders will renders will provide will field of y course providing forum sionals to exchange their said areas. The course perts in the field, having enders will provide will provid

> Electrical Machines and Controllers in Wind Energy Systems by DCP Raja, Associate Protester, 80, Bachaster

Day 2[13-07-2021 - Tuesday]: Session 4 - 2: 00 PM - 3: 30 PM

Recent Trends in VLSI Technologies, an Automotive Perspective by

Mr. Sivaramasubramanian Narayanan, Senior Project Nanager, Robert Boach Engineering and Business Schulzer (REE) Ltd. Bangatore.

Day 3 [14-07-2021 - Wednesday]: Session 5 - 11: 00 AM - 12: 30 PM

EV & Its Effect on Smart Grid by Dr Jithendranath J, Associate Professor, Giobal Academy, Bangalem.

Day 3[14-07-2021 - Wednesday]: Session 6 - 2: 00 PM - 3: 30 PM

Smart Meters In Smart Grid by Dr.S.Sridhar, Associate Professor, Department of EEE, Mi General Instance of Technology, Europeines.

Day 4 [15-07-2021 - Thuraday]: Session 7 - 11: 00 AM - 12: 30 PM

Introduction to Solar PV Systems by Dr.B. Pradeep Kumar, Assistant Protessor,

Day 4 [15-07-2021 - Thursday]: Session 8 - 2: 00 PM - 3: 30 PM

Grid Integration of Electric Vehicle by Dr. Jango Karuppasany, Amistar: Prefer Arrite School of Engineering, Cointeeren

Day 5 [16-07-2021 - Friday]: Session 9 - 11: 00 AM - 12: 30 PM

MEMS Devices in Real World Applications by Dr.Basudeb Bebra, Assistant Probaser, Inden Indiana of Technology, Gavebrai

Day 5 [16-07-2021 - Friday]: Session 10 - 2: 00 PM - 3: 30 PM

Multi Mode Single Stage PV Inverters: Operation & Derivation by Dr Ashok Kumar, Austran Proteiner, UC Devolution

Day 6 [17-07-2021 - Saturday]: Session 11 - 11: 00 AM - 12: 30 PM

Embedded System Challenges and Electrical Applications in Automotive by MCShamin Dudu T.S., Ganad Manger, Powr Train & Equilia, Robert Back Engineering & Bedrage Enclosed in Research

Day 6 [17-07-2021 - Saturday]: Session 12 - 2: 00 PM - 3: 30 PM

Industrial Applications of Electrical Drives by <u>McJhangataj Approaca</u>, Amira Nanger IVS Training and Service Linice <del>Solano</del>, Chernel

Day6 [17-07-2021 - Saturday]: Valedictory Function - 03:45 PM - 04:00 PM



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#### Academicyear2020 -21 (Odd sem)

#### Reporton

# One Week Online FDP on" Recent Trends in Electrical Engineering (12<sup>th</sup>to17<sup>th</sup>July2021)

TheVirtualFacultyDevelopmentProgramonwasconductedfrom12.07.2021to17.07.2021(6 days) in a effective manner and was very successfully completed with the support and encouragement of our Management, Directors, Principal, Conveners and all the Head OfDepartments, Co-ordinators. All the faculty members, students supported a lot to make this event successful which enhance the knowledge as well as brought the results of teamwork. All the sessions were conducted in MicrosoftTeam App(onlinemode).

A one-week Faculty Development Program (FDP)onRecentTrendsinElectricalEngineeringwas organized at the Department of Electrical and Electronics Engineering, The OxfordCollegeofEngineeringBangalorefrom12<sup>th</sup>July2021to17<sup>th</sup>July2021inassociationwithISTE Students Chapter. The main objective of this program is to make the participants aware of therecenttrendsinElectricalEngineeringsothattheycanupdatetheirknowledgeinthisareaandex ploreforfurtherresearch.Theobjectivealsoincludedthattheknowledgegainedandsharedwould help the faculties to guide students to pursue their career and research works. The FDPwas attended by 209 participants from faculty members& Research Scholars of EEE, ECE, ME, Basic Sciencedepartment of different collegesfromvarious PartsofIndia



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## Brochure of the 6 days FDP in Recent Trends in Electrical Engineering



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#### OBJECTIVES OF THE FDP

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#### OUTCOMES OF THE FDP

- its will be able to start using the t They can get in depth line
- in industry and research Vision & Mission of EEE Department

iting edge technologies of the even omos Engineering professi es of Electrical Science to world

#### Mission:

To learn rical and E e warn and experiment most recent innovation cal and Electronics Engineering related to industry. In provide state of art Sociities for the contin amont in isoching-learning process and res is in multidisciplinary areas. M3 To neurshin skil

Dsy1[12-07-2021 - Menday]: Inauguration - 10:00 AM - 10:30 AM Day 1 [12-07-2021 - Monday]: Session 1 - 11: 00 AM - 12: 30 PM Modern Distribution System by Dr.Venkata Kirti Day 1 [12-07-2021 - Monday]: Session 2 - 2:00 PM - 3:30 PM in Electric Vehicle by Dr. Josephine R Dsy 2 [13-07-2021 - Tuesday]. Session 3 - 11: 0f AM - 12: 30 PM ical Machines and Con rs in Wind Energy Syste Day 2[13-07-2021 - Tuesday]: Session 4 - 2: 00 PM - 3: 30 PM Recent Trends in VLSI Technologies, an Automotive Perspective by Mr. Sivalamasubramanian Narayanan, s

Schedule of the One Week Online Faculty Development Programme

Day 3 [14-07-2021 - Wednesday]: Session 5 - 11: 00 AM - 12: 30 PM EV & Its Effect on Smart Grid by Dr Jithendranath J.

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Inaugural Program of the Faculty Development Program

 $\label{eq:constraint} The FDP started with a formal in a ugural session compared by Dr Devi Vighneshwari$ 

, Associate Professor, Dept of EEE, with an invocation song by Sahana G H (6<sup>th</sup>sem EEEstudent). Dr. Bharath, Professor and Head of the Department of Electrical and ElectronicsEngineeringextendedawarmwelcometoalltherespecteddignitariesandparticipants .Healsoshared his views about the Faculty Development Program and importance of attending such program for the enhancement of knowledge of the faculties and students Introduction to the Faculty Development Program was given by FDP coordinator, NJayakumar, AssociateProfessor, Dept of EEE.He has highlighted the objectives of the FDP and briefed about thescheduleoftheprogram.Healsogave aglimpse of theactivities going on in EEE deptTOCE.



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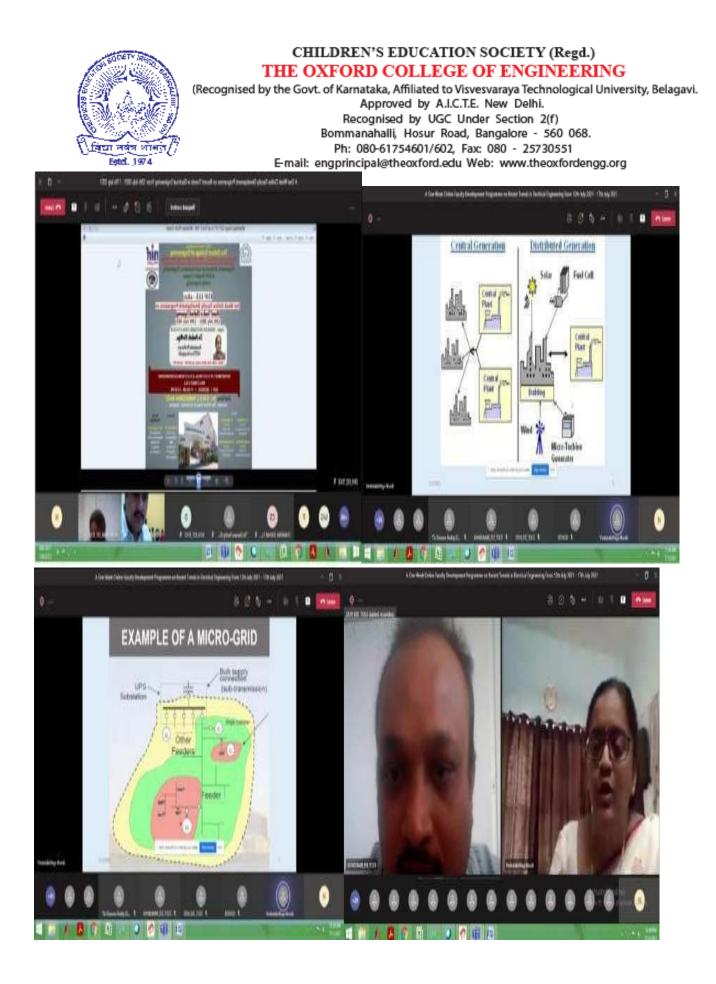


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Inaugural Program of the FDP on "Recent Trends in Electrical Engineering"

# Day1: 12<sup>th</sup> July 2021 Session1 (11:00 am-12.30 pm)

The first talk was delivered by: Dr. VenkataKirtiga, AssociateProfessor, EEE dept NIT, Tiruchirapallion "Modern Distribution System". Mrs. Nisha C Rani, AssociateProfessor , EEE dept has delivered the welcome speech and introduction about the resource person. Theresource person has explained about modern power system and emphasised on microgridplanning, various factors considered in restructuring and conceptual design issues. At the endof the session, Mr. N Jayakumar, Associate Professor, Dept, of EEE, delivered vote of thanks to the resource persons and all the participants.



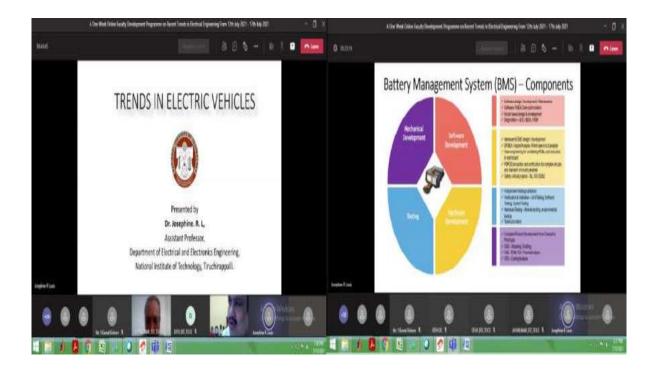


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## Day 1 Seesion1

**Day1:** 12<sup>th</sup>July 2021 Session2 (2:00 pm-3.30 pm)

The next technical session was handled by Dr Josephine, Assistant Professor, EEE dept NIT, Tiruchirapalli on Trends in Electric Vehicles. Dr Josephine has spoke about the BatteryManagementsystemandBatteryTechnologieswithPowerElectronics.Shehasdetailedab outEV battery charger's evolution and challenges. The welcome address and vote of thanks to there source person and all the participants was done by Mr. NJayakumar, Associate Professor, EEE department.





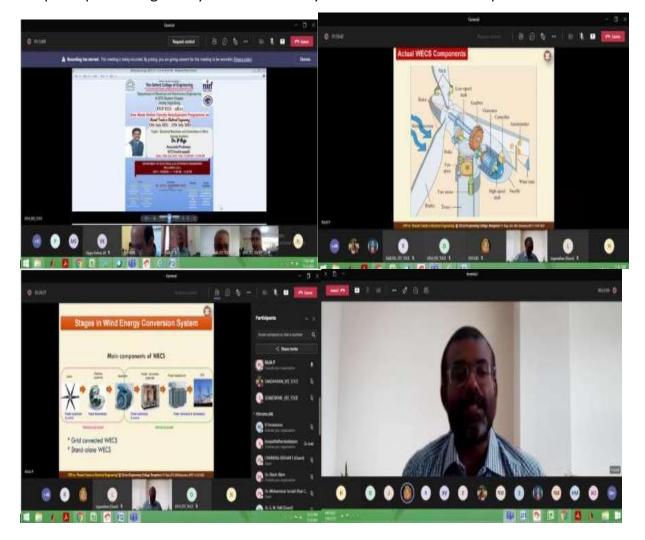


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#### Day1 Seesion2

Day2: 13<sup>th</sup>July 2021 Session3(11:00 am-12.30 pm)

The second day of the program started with a very interesting talk on Electrical Machines and Controllers in Wind Energy System by Dr. P Raja, Associate Professor, EEE dept NIT, Tiruchirapalli. Dr. P Raja has given a detailed explanation about wind energy conversion systems and its controls. Also, he has detailed about the performance of Wind energy Conversion Systems. The welcome address and vote of thanks to the resource person andparticipantswas given by Mrs Raichel RubyAssociateProfessor EEE dept





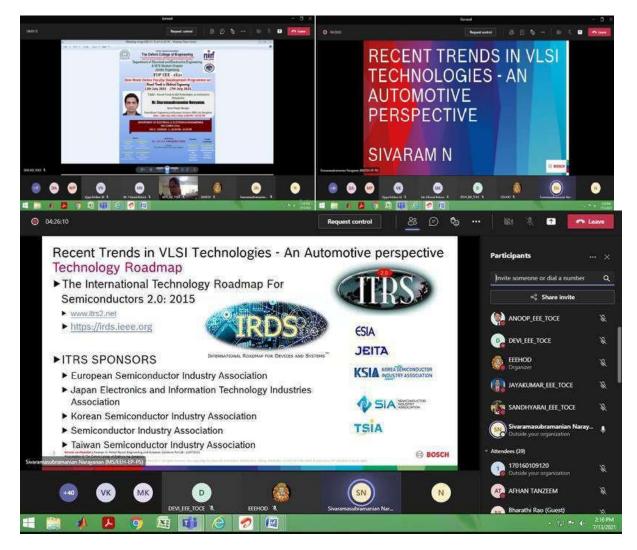
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Day2: 13th July2021 Session 4(2:00 pm-3.30 pm)

Title: Recent Trends in VLSI technologies an Automotive Perspective

**Resource Person:** Mr. Sivarama Subramanian Narayanan, Hardware Technical expert Robert Bosch Engineering and BusinessSolutionsBangalore

The fourth technical session was handled by MrSivaramasubramanian Narayanan, HardwareTechnical expert Robert Bosch Engineering and Business Solutions Bangalore. The Topic of the session was Recent Trends in VLSI technologies an Automotive Perspective. He has explained about the semiconductor crisis due to pandemic and its impact on automotive field. The welcome speech, introduction about the speaker and vote of thanks was given by Mrs.NishaC Rani, AssociateProfessor, EEEdept.





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# Day3: 14<sup>th</sup>July2021 Session5 (11:00 am-12.30 pm)

Title: EV and Its Effect on Smart Grid

Resource Person: Dr. JithendranathJ, Associate Professor, Global Academy of Technology,

Bangalore the next session was about EV and its Effect on Smart Grid. The session was handled by

Dr. Jithendranath.He has given the overview of traditional power system and the challengesfaced.

by the traditional grids. He has given a detailed explanation about smart grids, EV charging and grid

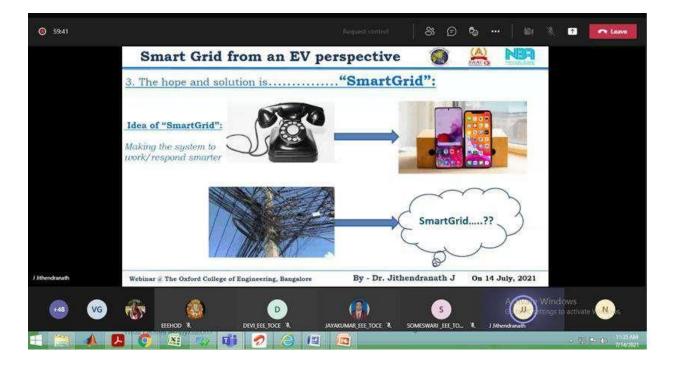
interaction. The wel come address was given by Mrs Sandhya Rai, Associate Professor, EEE dept

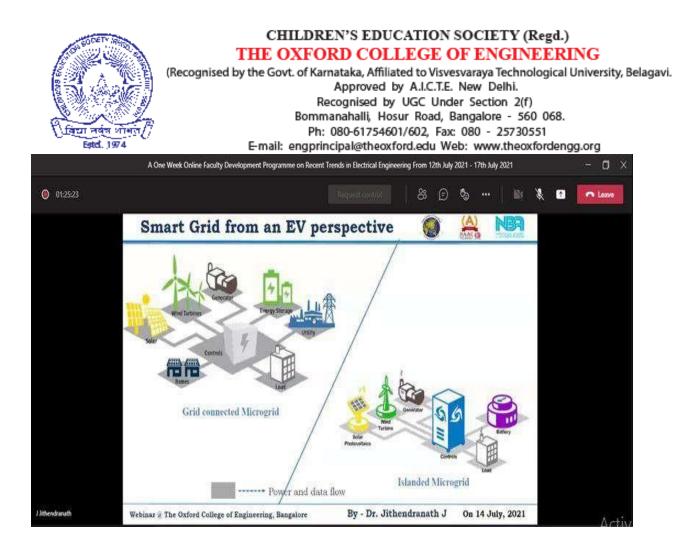
and Vote of thanks was given by Mrs. Someswari, Assistant Professor



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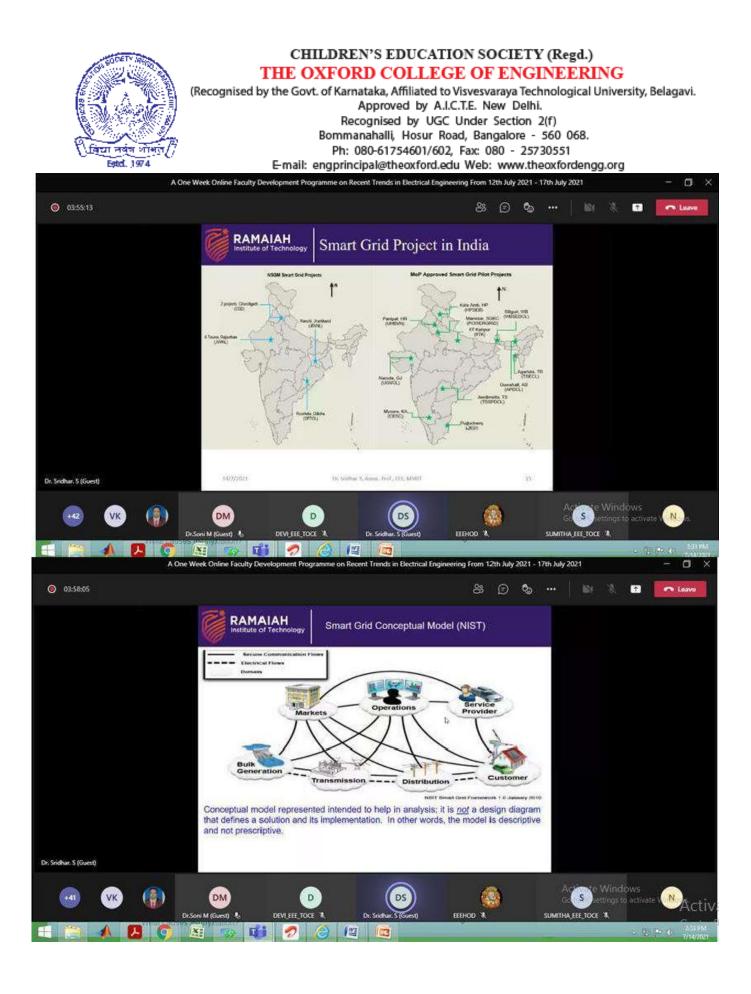
**Day3:**14<sup>th</sup>July 2021 Session 6 (2:00 pm-3.30 pm)

Tile: Smartmetersin Smart Grid

**Resource Person:** Dr. SridharS, Associate Professor, MSRIT, Bangalore.

The sixth session of the FDP was in the topic Smart meters in Smart Grid. The session washandled by Dr. Sridhar S. The session started with the welcome address by Mrs Sumitha T L, Assistant Professor, EEE dept. Dr Sridhar has detailed about the major transmission systemsinIndiaandbiggestblackoutsinthehistory.Hehasexplainedaboutthesmartgridconceptu almodel and realization. The vote of thanks was given by Resna S R, Assistant Professor, EEEdept.







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Day4: 15<sup>th</sup> July 2021 Session7 (11:00 am-12.30 pm)

Title: Introduction to SolarPVSystems

**Resource Person:** Dr. B PradeepKumar, Assistant Professor, Kakatiya Instituteof Technology and Science, Warangal.

The 7th session of the FDP was handled by Dr. B PradeepKumar. The topic was about Introduction

to Solar PV system. The welcome address was given by MrsSandhyaRai

, AssociateProfessor, EEEdept.The speaker has given a very good overview about the solar

PV systems and its characteristics. He has explained about the PV parameters and MPPTtechniques.Thevoteof thankswas givenby Mrs Someswari, AssistantProfessor, EEEdept.





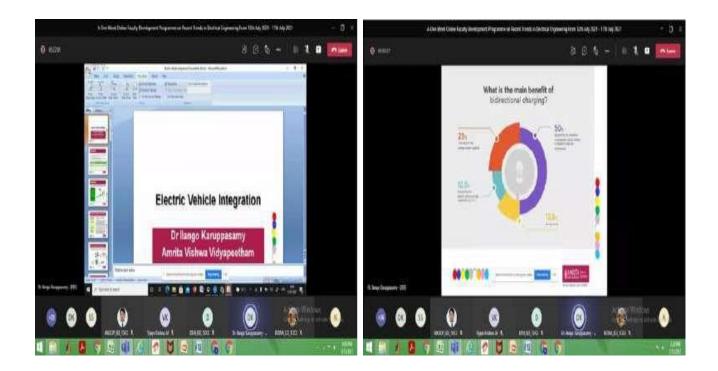
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Day4:15<sup>th</sup>July 2021 Session8 (2:00pm-3.30pm)

Title: Grid Integration of Electric Vehicles

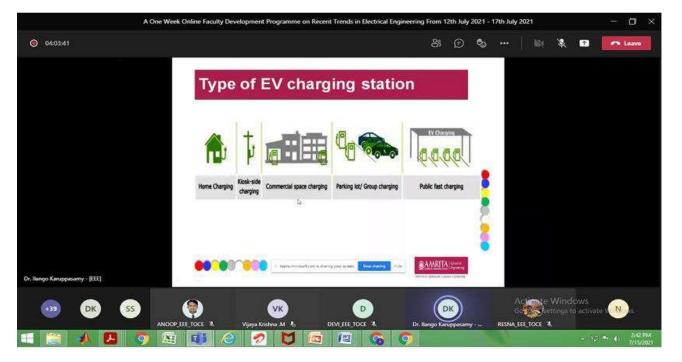
**Resource Person:** Dr. Ilango Karuppuswamy, Assistant Professor, Amrita School of Engineering Coimbatore.

Thenext session was about Grid intergration of Electric Vehicle handled by Dr. Ilango Karuppuswamy. He has detailed about the charging infrastructures and types and levels of Charging. The welcome address was given by MrsResna S R, Assistant professor, EEE deptandthe voteof thankswas given by Mrs. SumithaTL, AssistantProfessor, Deptof EEE.





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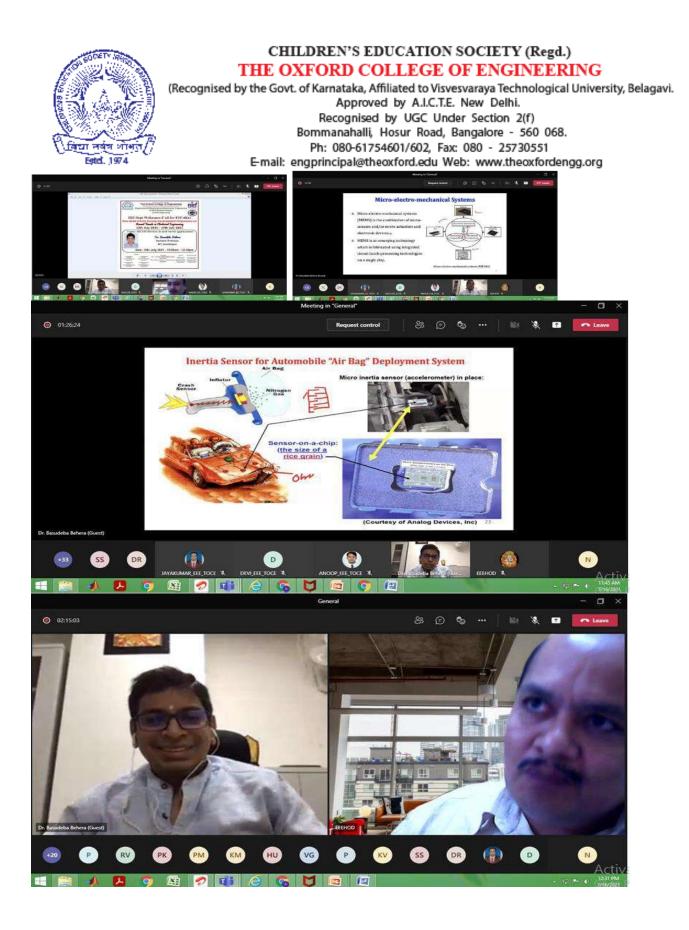
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Day5:16<sup>th</sup>July 2021 Session9 (11:00 am-12.30 pm)

Title: MEMS devices in Real World Applications

## **Resource Person:**

The fifth day of the FDP started with a session by Dr Basudeva Behera on MEMS devices inreal applications. The welcome address was given by Mr. Anoop, Assistant Professor, EEEdept. He has given a detailed explanation about the different types of MEMS actuators. The vote of thanks was givenbyMrs. Manjushree, Assistant Professor, EEEdept.





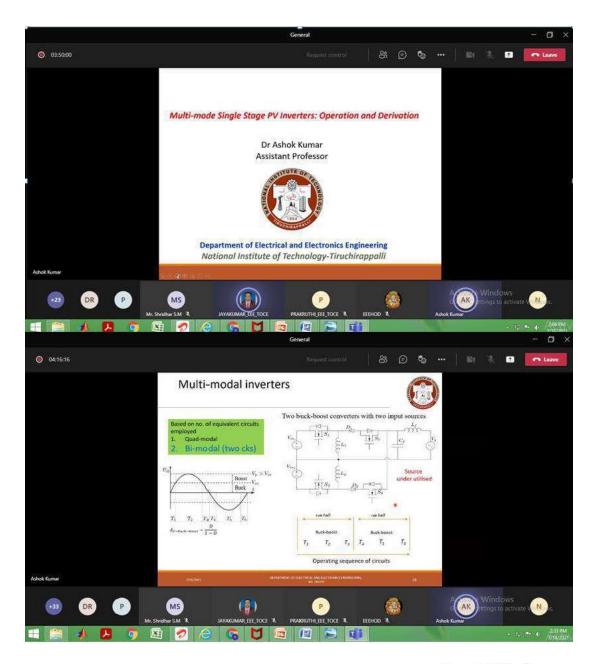
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**Day5:**16<sup>th</sup>July 2021 Session10(2:00pm-3.30pm)

Title: Multi mode Single stage PV inverters: Operation and Derivation

Resource Person: Dr. Ashok Kumar, Assistant Professor, NITT iruchirapalli

The 10<sup>th</sup> session was handled by Dr. AshokKumar. The topic was Multi mode Singlestage PV inverters. The welcome address is given by Mrs Prakruthi, Assistant Professor, EEE dept. He has explained about the multi level inverters and its operation. Vote of thanks was given by Ms Poornima, Associate Professor EEE dept



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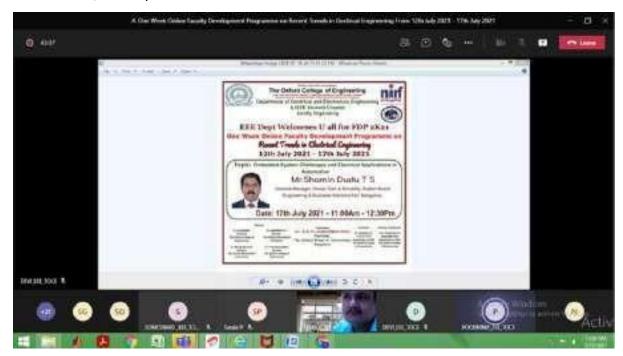
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**Day6:** 17<sup>th</sup>July 2021 Session11 (12:00 am-12.30 pm)

Tile: Embedded System Challenges and Electrical Applications in Automotiv Resource

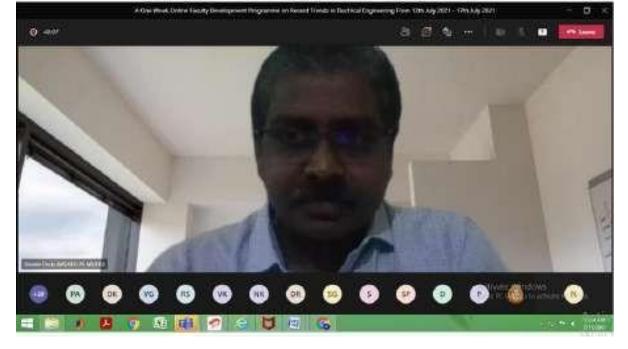
**Person:** Mr Shamin Dudu TS, General Manager, Power train Emobility, RobertBosch Engineeringand Business solutionsLtd Bangalore

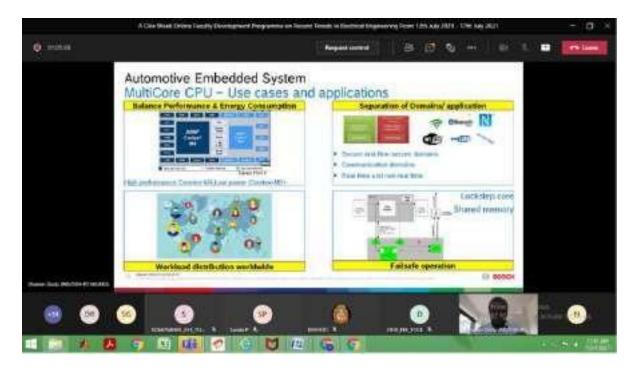
The last day of the FDP started with the session by MrShaminDuduTS on Embedded System Challenges and Elctrical Applications on Automotives. He has detailed about the presentscenario of EVs and he has explained about the Electrical application and challenges inautomotive field. The welcome address and vote of thanks were given by Ms Poornima, Assistant Professor, EEE dept.





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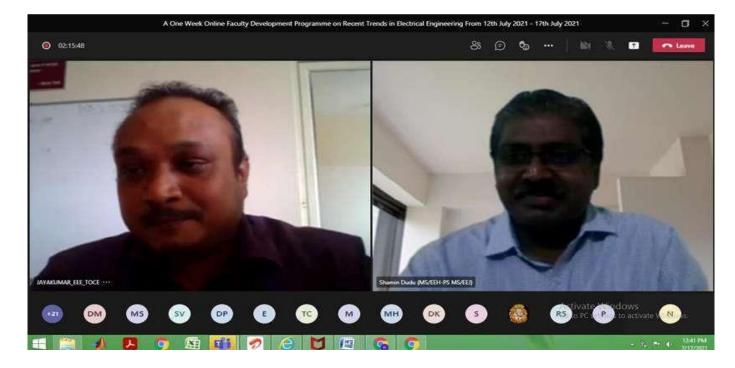






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Day6:17<sup>th</sup>July2021Session12 (2:00 pm-3.30 pm)



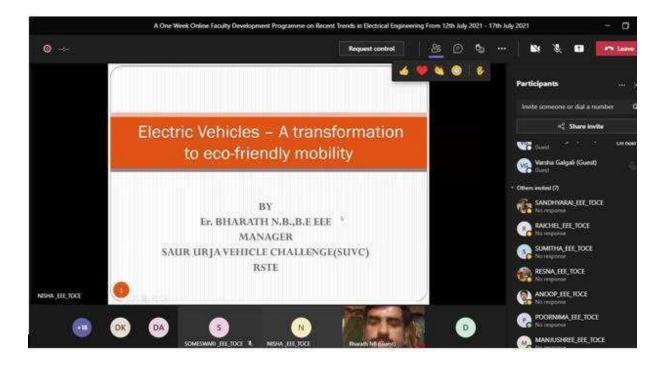


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Title: Electric Vehicles

## Resource Person: Mr.Bharath, Manager Sour Urja Vehicle Challenge.

Last session of FDP is by Mr. Bharath, He briefed about the Electric Vehicle dynamics andimportance in the present situation. Operating condition of EV, BMS algorithms, Economicaspects, Funding prospective in the Electric Vehicleand all discussed in lucid manner whichmotivated all the participants to ask more questions during the session as Well as after the session also. With his session FDP was ended with happy learning. Prof.Someswari introduced the speaker and Prof. Poornima delivered Vote of thanks





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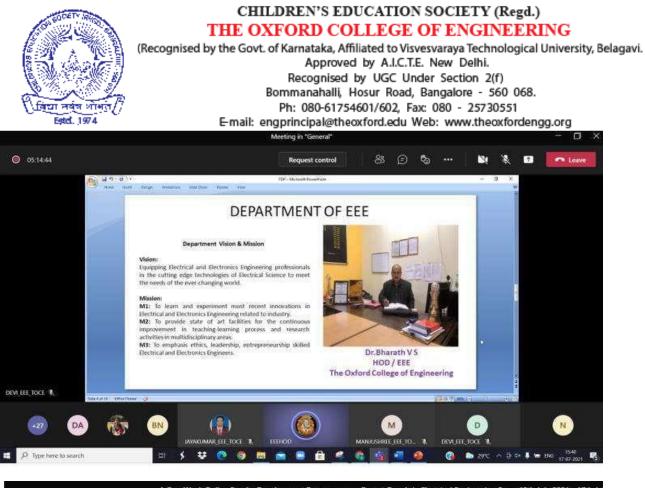
#### Valedictory Event:

On 17.07.2021 at 3.30 p.m, we had a Valedictory session with Our HOD, Co ordinatorandallthe

 $faculty members\ with the presence of last\ sessions peaker Mr.\ Bharath.$ 

HoD of EEE Dr. V.S. Bharath concluded FDP with his wonderful thank giving note to all theparticipants, Management, Principal, Directors of TOCE and Organising committee members of this FDP for the smooth conduction of this oneweekFDP through Virtual mode.

Prof. Jayakumar, Summarised the 6 days session and delivered vote of thanks to all. With this we concluded our FDP.

















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# Feed backfrom the Participants:

Overall feedback from the participants expressed their happiness and great learning

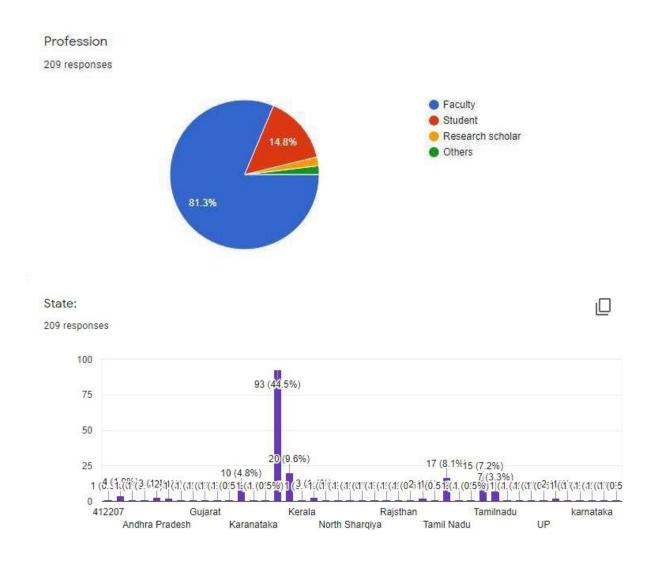
Throughout the sessions. All the participants were well satisfied with the speakers and their delivery of knowledge sharing.



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#### **Registration Details**

The FDP was attended by 209 participants from faculty members & Research Scholars of EEE, ECE, ME, Basic Science department of different colleges from various states all over India.The participants in cludes faculties, PG students, Research Scholars and from industries

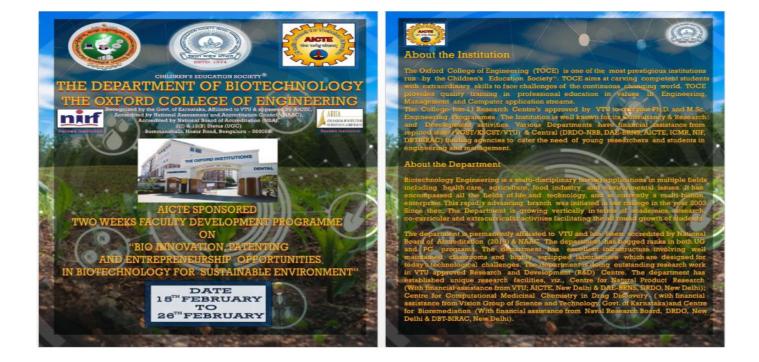




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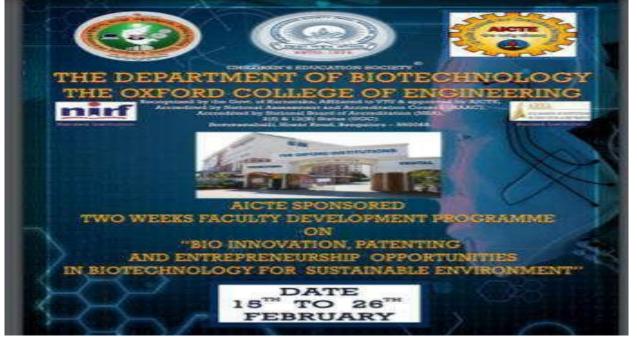
# Academicyear 2020 -21(Odd Sem)

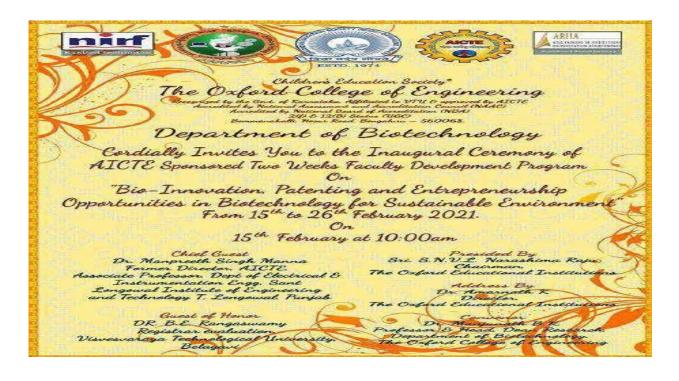
Report on AICTE sponsored Phase 1 FDP on" Bioinnovation, Patenting and entrepreneurship opportunities in Biotechnology for sustainable environment "from 15<sup>th</sup> to 26<sup>th</sup> February 2021













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The Department of Biotechnology of The Oxford College of Engineering organised AICTE sponsored twoweeks Faculty Development Programtitled "Bioinnovation, Patenting and Entrepreneurship Opportunitiesin Biotechnology for Sustainable Environment" from 15<sup>th</sup> to 26<sup>th</sup> of February 2021, in association withKarnataka state Council for Science and Technology, Government of Karnataka andVisvesvaraya Trade Promotion Centre(VTPC), Department of Industries & Commerce,Government of Karnataka,as knowledge partners for thebenefit of all the faculty members.

### Day1:15<sup>th</sup> February2021

The FDP included a formal inaugural session compered by Mrs.Valarmathy K of Dept of Biotechnology, with invocation and a lamp lighting ceremony. The distinguished people in the meeting were Dr. G.T. Raju, Principal TOCE, and Dr. Amarnath K, Director, The Oxford Educational Institutions, also the Chief Gueston the occasion Dr. Manpreeth Singh Manna, Former Director, Sant Longowal Institute of Engineering and Technology, Punjab, Dr. BK Manjunath, HOD, Dept of Biotechnology, The Oxford Collegeof

Engineering. Guest of Honour was Smt.Dr. Rangaswamy, Registra revaluation, VisvesvarayaTechnological University.The session was presided by the Chairman of The Oxford Educational Institutions, Sri. S N VL NarasimhaRaju garu.

The welcoming speech was delivered by Dr. R.V. Praveena Gowda, Principal TOCE, who briefed about the objectives and the purpose of conducting this program. Dr. Manjunath, BT HOD of Biotechnology and the convenor of FDP spoke about the need of pedagogy in Engineering role of a teacher in igniting the youngmind towards innovation through advanced teaching methods and highlighted the benefits of collaborative research, innovation and appreciated thekind support extended by VTPC inorganising the FDP.

The programme progressed with the inaugural lecture by the Chief Guest, Dr. Manpreeth Singh Manna.In his talk he highlighted the R&D innovations in the perspective of Accredeation.The guest of honour, Dr.

B.E. Rangaswamy, Registrar, VTU, gave the theme facilitation, where he addressed the importance of theprogram for the academicians. He also gave a glimpse of the activities going on in the Oxford College of Engineering. The post-lunch session was presented by Dr. Jaganath, Pasteur, Conoor, where he emphasized about vaccined evelopment process and production.



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#### **Day2:**16<sup>th</sup> February2021

The second day started off with the lecture of Dr.B.K. Manjunath, BT HOD, TOCE.His talk was based onstrategies for product developmentin the current perspective. The next lecture was given by Smt.PrabavathiRao who talked about Vtpc initiative to promote GIs, as an important tool. The programme progressed withthe lecture by Dr.S. Ayyappan, Chancellor, Central Agricultural University, Imphal, in which he talked aboutIOTin agriculture.

#### Day3:17<sup>th</sup> February2021

The third day started with the lecture of Dr.R. Rajesh Kumar who talked on the integrated sustainable agriculture & rural Bio-enterpreneurship. The next lecture was given by Dr. Paramasivan, Scientist, ICMR, on the topic ofvector borned is ease in India and the need for options for innovation. The next talk was about intellectual property as a powerful tool to protect Biotech innovation by Mr. Vivek Anand Sagar. KSCST.

#### Day4: 18<sup>th</sup>February 2021

The fourth day started with the lecture about entrepreneurship & Bio-innovation challenges & opportunities by Dr. Shridhar HariKrishna Murthy, Scientific Advisor, VNSE nviro Biotech PvtLtd, Chennai.The second talk was delivered by Dr. T. Srinivas, IISC, on optical biosensors. As the last session of the day, Dr. Devaneyan, Director-Innovation& EntrepreneurshipProfessor-Sustainable Energy, MAHER-Meenakshi Academy of Higher Education & Research, highlighted about Bio-Innovation products and Entrepreneurial opportunities.

#### Day5:19<sup>th</sup> February 2021

The fifth day started with talk on the concepts& design intricacies of braincomputer interfacing byDr.Ramasubba Reddy, IISC.The day progressed with the next lecture by Dr. Bijay Kumar Sahu, NRDC, who emphasised on IP Protection and Tools of IP. The last session was engaged by Dr. Bharath, Atrime Pharmaceuticals Ltd, who talked on the need of bioinformatics and highlights of how to the cut the cost andbreaktheIP.

#### Day6:20<sup>th</sup> February 2021

On the sixthday, Dr.N.G. LakshmiNarayan, NRDC, talked about NRDC–TransformingInnovativeResearch in to Profitable Technology.In the second session, Dr. Yogamaya, Deputy Manager, Biotech Consortium India Ltd (BCIL), New Delhi, talked about aligning applied research in Biotech for enhancingcommercialization success.



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The last session was taken over by Dr. Brinda, IP attorney Consultant, IISC, whotalkedon Patenting biotechnological inventions.

#### **Day7:**22<sup>nd</sup>February2021

The seventh day of the program started with the lecture by Dr. Nandhini, G.I. Expert Consultant, Foundation for revitalization for Local Health Traditions, who emphasised on the procedure of patenting. The programprogressed with the next lecture by Dr. Sarasija, Tutor, Wpro& Advisory member KSCST, who talked abouttheprior art searchrelated to biotechnology inventions.

# Day8:23<sup>rd</sup> February 2021

The eighth day of the program commenced with the technical talk by Dr. Sundaresan, CMAP who gavedetails on medicinal and aromatic plants and about the prospects in cultivation and enterprises. The sessionwas then taken over by Dr. Farah Deba, Former Scientist, Monsanto who emphasized on the identification ofpatentsat theearly stage of biotech inventions.

#### **Day9:**24<sup>th</sup> February2021

The ninth day of the program began with the lecture by Dr. SumithaMishara, Amity University on the topicinnovative research in thermal imaging for biomedical and agriculture applications. The second session wasengaged by Dr. Padmapriya V Khurana, KSCST who discussed about Patent Drafting of Bio-Tec InventionsTechniquesfor biotechnology inventions.

#### **Day10:**25<sup>th</sup> February2021

The tenth day of the program started with technical talk by Dr.N. Sriram, MSRIT, who explained about Bio-Innovation: MAKERSPACE-Idea to Prototype. The next talk was on the reply to examination report ofpatentapplication related to Bio-TecInventions by KS Dhurgesh, KSCST.

#### Day11:26<sup>th</sup>February 2021

The final day of the program started with informative lecture given by Mr. Gaurav Mishra Banana, KSCST, who emphasized on Infringement & Exceptions Under Patent Law Bio-Tec Research– Bolar exception and Bioequivalence.

This led to the end of the series of lectures in the two weeks programme. The program on the whole was very informative.



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The Valedictory session was presided by Shri.S.N.V.L Narasimha Raju ,Chairman ,TheOxford Educationa IInstitutions, Dr.B.K.Mnjaunath gave a detailed summary through presentation about the details of technical talks happened during the 14 days FDP and the participants were over whelmed with the FDP and theyexpressed their happiness during the feed back session and the 14 days event was ended with the vote ofthanks by Dr.K.Valarmathy,Associate Professor, Department of Biotechnology, The Oxford College of Engineering. This led to the end of the series of lectures in the two weeks programme. The program on the whole was very informative.

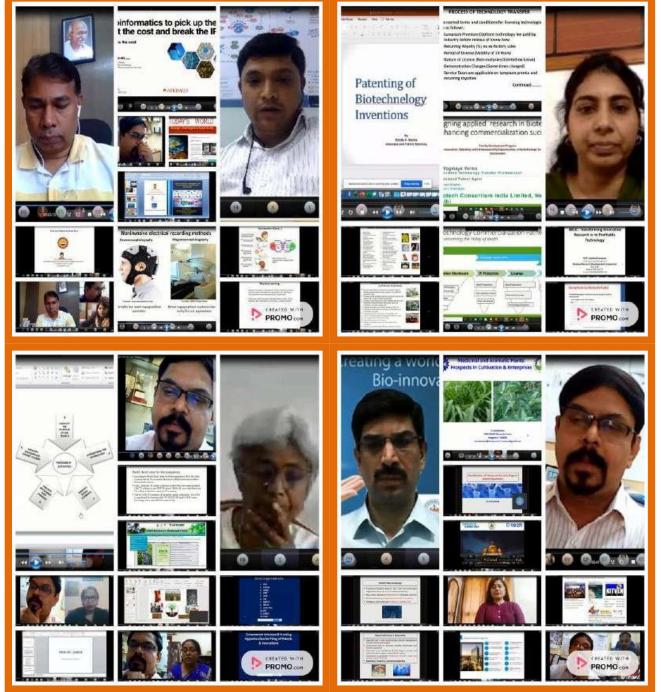


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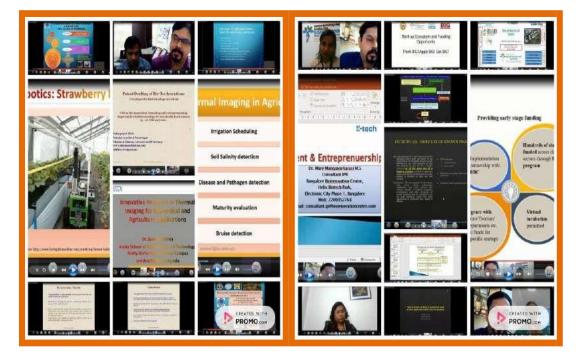
#### Album of FDP event











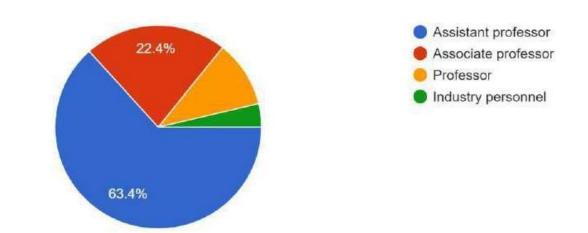


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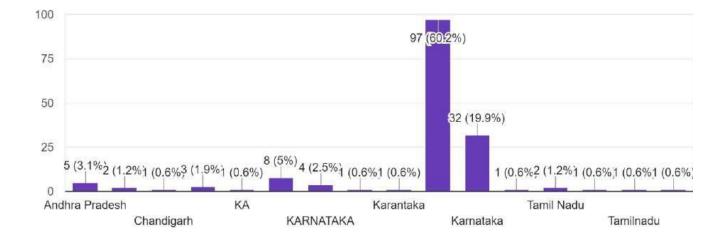
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161 responses



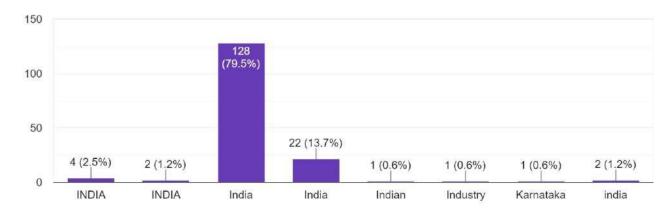
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# About the Institution

The Oxford College of Engineering (TOCE) is one of the most prestigious institutions run by the Children's Education Society'. TOCE aims at carving competent students with extraordinary skills to face challenges of the continuous changing world. TOCE provides quality training in professional education in values in Engineering, Management and Computer application streams. The College has 11 Research Centre's approved by VTU to corryout Ph.D. and M.Sc. Engineering Programmes. The Institution is well known for its Consultancy & Research and Development activities. Various Departments have financial assistance from reputed state (VGSY/KSCST/VTU) & Central (DRDO-NR), DAEBRNS, AICTE, ICMR, NIP, DBTBERAC) funding agencies to cater the need of young researchers and students in engineering and management.

About the Department

Biotechnology Engineering is a multi-disciplinary having applications in multiple fields including health care, agriculture, food industry and environmental issues. It has encompassed all the fields of life and technology, and is currently a multi-billion enterprise. This rapidly advancing branch was initiated in our college in the year 2003. Since then, The Department is growing vertically in terms of academics, research, co-curricular and extracurricular activities facilitating the all round growth of students.

The department is permanently affiliated to VTU and has been accredited by National Board of Accreditation (2019) & NAAC. The department has bagged ranks in both UG and PC programs. The department has excellent infrastructure anvolving well maintained classrooms and highly equipped laboratories which are designed for today's technological challenges. The department (&D) Centre. The department has established unique research facilities, viz., Centre for Natural Product Research (With financial assistance from VTU; AICTE, New Delhi & DAE-BENS, DRDO, New Delhi); Centre for Computational Medicinal Chemistry in Drug Discovery (with financial assistance from Vision Group of Science and Technology, Govt. of Karnataka)and Centre for Bioremediation. (With financial assistance from Naval Research Board, DRDO, New Delhi & DB'-BIRAC, New Delhi). In these RAD centres, several funded research projects have already been conduct and continuing. Research grants have been received from various rational and sta government funding agencies like DBT-BIRAC, DRDO-NRB, DAD-BRNS, AICT VGST-KFIST, VTU, KSCST and NIE These projects are instrumental in strengthen our coresearch activities which are beneficial to both students and staff\_TRey have algenerated sufficient amount of funds to equip our department with necessal instrumentation and other requirements. Highly qualified and ecosomod faculties wi are capable of nutruing the overall growth of students are also actively involved conducting various programmes and activities in the department. The department proud to state that, a domestic patent is filed and a Bioremediation produ PETROZAP is developed to address Bioremediation of hydrocarbons and oil ppi with financial assistance under BIRAC

About the FDP

High-quality professional training programs for faculty members have become essential to higher education institutions in order to be able to complete in this ever , changing world. It is clear that faculty development has become well established and has grown into a recognized activity within higher education. Faculty development programs (FDPs) have proven to be successful for improving teaching skills in higher education.

The biotechnology industry diligently pursues better, faster, and more offective methods of translating ideas into needed commercial products. Productt are produced by companies, and companies are started and managed by entropreneurial leaders, leaders are groomed in academic institutes and faculty is the pillars of institution. Therefore, it is vital for nation to have faculty who produce more effective entrepreneurial leaders and managers, who are knowledgeable and better equipped.

This faculty development program aims at upgrading the skills necessary to make wise decisions for building successful biotechnology entrepreneurs. Further, the FDP aims to explore the opportunities in bio-entrepreneurship evaluation a sasessment of grant proposal's losaness plans. Anding opportunities by analyzing the schemes of funding agencies (DBT, DST, SERB, etc.,).To understand the patentability criteria, viable aspect of the patent, importance and scope of JPR in academic researches, researching around patents, patent expiry, entrepreneurship and translating research culture in academics.

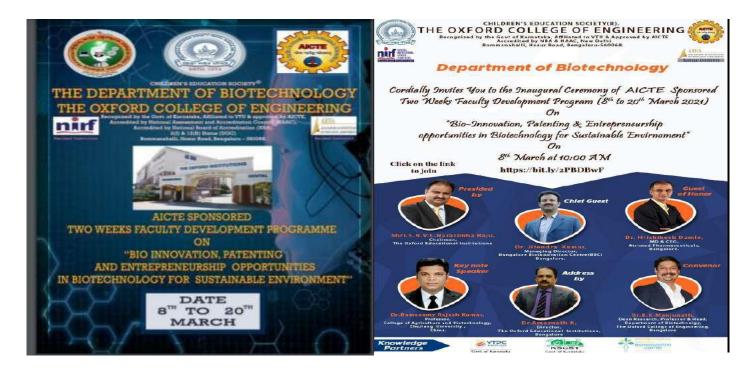






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Report on AICTE sponsored Phase 2 FDP on" Bioinnovation, Patenting and entrepreneurship opportunities in Biotechnology for sustainable environmentfrom 8<sup>th</sup>to 20<sup>th</sup>March 2021



The Department of Biotechnology of The Oxford College of Engineering organised AICTE sponsored two weeks Faculty Development Program titled "Bioinnovation, Patenting and Entrepreneurship Opportunities in Biotechnology for Sustainable Environment "from8<sup>th</sup>to 20<sup>th</sup>of March 2021, in association with Karnataka state Council for Science and Technology, Government of Karnataka, Bangalore Bioinnovation centre and VisvesvarayaTrade Promotion Centre(VTPC), Department of Industries & Commerce, Government of Karnataka, as knowledge partnersfor the benefit of all the faculty members .



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# Day1: 8<sup>th</sup>March 2021

The FDP included a formal inaugural session compered by Mrs.Valarmathy K of Dept of Biotechnology, with invocation and a lamp lighting ceremony. The distinguished people in the meeting were Dr. R.V. Praveena Gowda, Principal TOCE, and Dr. Amarnath K, Director, The Oxford Educational Institutions, also the Chief Guest on the occasion Dr. JitendraKumar, Managing Director, Bangalore Bioinnovation Centre

(BBC), Dr. B K Manjunath, HOD, Dept of Biotechnology, The Oxford College of Engineering. Guest of Honour was Dr. Hrishikesh Damle, MD & CEO, Atrimed Pharmaceuticals and Dr. Ramaswamy RajeshKumar, Professor, College of Agriculture and Biotechnology, Zhejiang University, China as Key note speaker. The session was presided by the Chairman of The Oxford Educational Institutions, Sri. S N V LNarasimha Raju garu.

The first talk was delivered by Dr. Jitendar Kumar on "Creating an Innovative Ecosystem in Life Science". Dr. Kumar emphasized on various factors that enhance the growth of biotechnology clusters and added a note on the services offered by Bangalore Bioinnovation Centre (BBC) in creating an innovation ecosystem.

The next session was by Dr. Hrishikesh Damle on "Starting your own company". Dr. Damle discussed indetail the qualities needed to be an entrepreneur along with the difficulties faced during the initial times ofhis company, Atrimed Pharmaceuticals.

Keynote speech was delivered by Dr. Ramaswamy Rajesh Kumar on "Integrated sustainable agriculture andruralbio-entrepreneurship". Dr. Kumare laborated on the global challenges arising from various an thropological activities and the inventions related to sustainable agriculture.

# Day 2: 9<sup>th</sup>March 2021

The second day started off with an interesting speech on "Plant specialized metabolism and its engineering for commercial production of high value metabolites" by GirinathG. Pillai, PhD. Sir spoke of evolution of plant genome. The next session was delivered by Dr. K.S. Jagadeesh on "Towards development of abiostimulantusingforestgeneticresourcesforuseinagriculture". Dr. Jagadeesh discussed about biostimulants, production, advantages of biostimulants over chemical fertilizers and their market potential.



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The last session of day 2 was handled by Dr. Srinivasa Mutalik on "Nanocarriers as drug delivery vehicles: overview and case studies". Dr. Mutalik gave a detailed lecture on the use of nanotechnology in drugdelivery system.

# Day 3: 10<sup>th</sup>March 2021

The third day started with technical talk by Dr. N. Sriram who delivered a speech on "Bio-innovation: Makerspace- Idea to prototype". Dr. Sriram spoke of different inventions in the field of health sciencesand wearable electronics. Session 2 was engaged by Dr. Ramakanth from Nishant Aromas Pvt. Ltd. Sirelaborated on various MSME opportunities on aromatic plants. Session 3 was handled by Dr. Srinivas B Vfrom Aspartika Biotech Pvt Ltd. Sr. Srinivas spoke on various innovative ideas for start ups.

# Day 4: 12<sup>th</sup>March 2021

The fourth day began with a talk on "Role of MSME in Indian economy" by Dr. Gopinath Rao from MSME Development Institute, Govt. of India. Dr. Gopinath talked us through various schemes offered by the Govt.of India along with a number of challenges faced by MSMEs. Session 2 for the day was engaged by Dr. Kailash ChandraKhulbe from CSIR-Indian Institute of Toxicology Research, on "Entrepreneurship: commercialization of scientific knowledge base". Dr. Khulbee laborated on various probabilities to commercialize a scientific idea. Session 3 was engaged by Dr. Pradeep Kumar Verma from NMRL on "Innovations in marine biotechnology". Dr. Verma introduced the audiences to various aspects of marinebiotechnology, creation of novel products from marine ecosystems and plenty of opportunities marinebiotechnology has to offer to the young minds.

# Day 5: 13<sup>th</sup>March 2021

The fifth day started with talk on the concept "Plant viral diseases and their management through biotechnological interventions" by Dr. Basava Prabhu L Patil.He elaborated on various plant viral diseases, their causative agents, development of disease resistant varieties. Session 2 was engaged by Dr. Nivedan on "Areca tea value added products from arecanut". Dr. Valarmathy K handled session 3 for the day on "Biotech entrepreneurship ideas and opportunities". Dr. Valarmathy talked us through various productsdeveloped and those which have successfully been commercialized



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## Day 6: 15<sup>th</sup>March 2021

The sixth day started with a talk on "Hidden healthcare informatics data exploration as an entrepreneurialniche" by Dr. Vidya Niranjan. Dr. Vidya pointed out the importance of data analytics in healthcare, elementsand attributes pertaining to data analytics as well as different steps of data analytical processes. Session 2was on "Art of writing research proposal for successful funding" by Dr. Preetha Sharan. Dr. Preethaelaborated on various terminologies like H index, i-10 index and ORCID ID along with their importance andrelevance in publishing research articles. Session 3 was handled by Dr. B K Manjunath on "Technologiesand funding opportunities". Dr. Manjunath spoke on various technology transfer opportunities in the field ofbiotechnology, production and commercialization of biopesticides and start up schemes of Govt. of India.

# **Day 7:** 16<sup>th</sup>March 2021

The seventh day of the program started with a talk on "Isolation and characterization of anti-cancer compounds from natural sources" by Dr. Shama Prasada K. Sir discussed different cancer treatment optionsand different types of assays for diagnosing cancer cells. Session 2 was engaged by Dr. A Srinivas Rao on "Pesticides and their metabolites analysis: Environmental and biomarkers of human exposures and healthissues". The next session was on the topic "Biotech patent case laws defining patentability criterion indifferent jurisdictions" by Smt. Ekta Prasad, Patent Agent, KSCST.

# Day 8: 17<sup>th</sup>March 2021

The eighth day of the program commenced with the technical talk by Dr. Sarasija, Tutor, WIPO & Advisory member, KSCST, who gave details on the topic "Handsontraining– PriorartsearchrelatedtoBiotechnologyInventions". The session was then taken over by Dr.C.R. Patil, Professor, University of

Agricultural Sciences, Karnataka, who emphasized on the types of microbialinoculants, currentstatus, future prospects and quality standards.



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### Day 9: 18<sup>th</sup>March 2021

The ninth day of the program began with the lecture by Ms. Ankita Puranik, Innovation and EcosystemDevelopment Officer, BBC, on the topic "Start up ecosystem and funding opportunities". The secondsession was engaged by Dr. Meher Prakash, Cofounder, VNIR Biotechnologies Pvt Ltd, who discussedabout "My journery, back and forth between academics and startup". The last session of the day was about the overview of government and nongovernment funding agencies for research and development by Dr.B. K. Manjunatha.

# Day 10: 19<sup>th</sup>March 2021

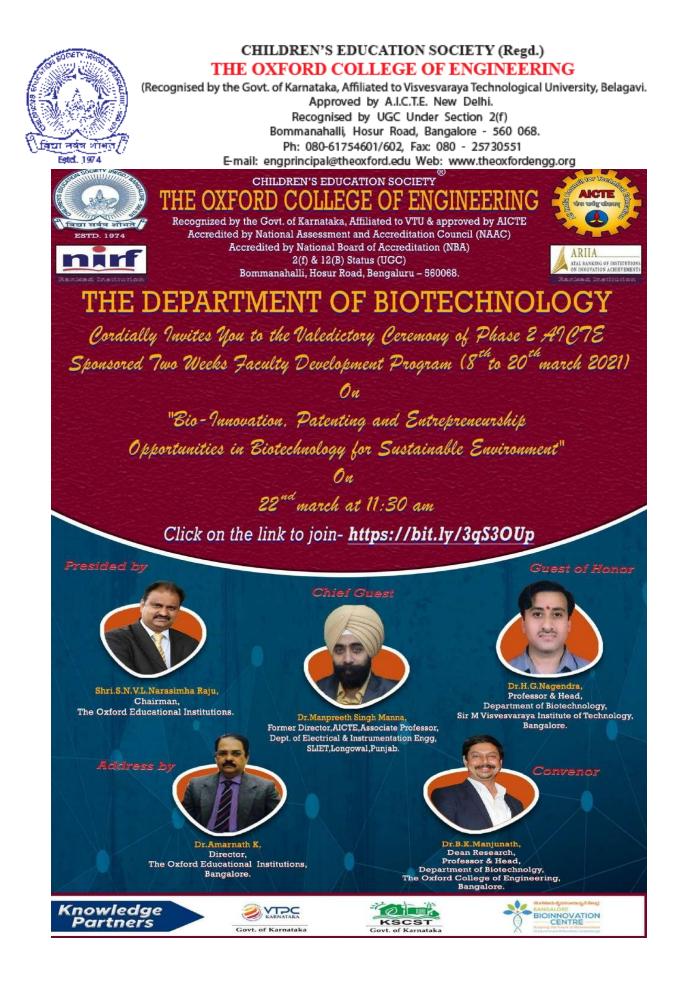
The tenth day of the program started with technical talk about the opportunities for starting a sciencedrivenbusiness by Dr. Raghuveer Ramachandra, Founder and Director, GaloreTx Pharmaceuticals Pvt Ltd.Thelast session was about 3D Bioprinting in India and about how it is shaping up healthcare and medicine byMr. Piyush Padmanaban, Cofounder, Next Big Innovation labs, Bangalore.

# Day 11: 20<sup>th</sup>March 2021

The eleventh day of the program started with informative lecture given by Dr. Arvind Vishwanath, CEO, Pitch Scientific, Bangalore, who emphasized on patent searching and analysis with reasons, data sources andmethods. The second session was about newer avenues and skill sets for biotech entrepreneurship given by Dr. Pratima Kanderwal, Lead Facilitator.The last session of the technical talk was by Dr. Raju, Professorand Head of Department of Automobile Engineering, TOCE, on the topic "Biodiesel- a potent option for Entrepreneurship".

# Day 12: 22<sup>nd</sup>March 2021

The last day of the FDP started with technical talk delivered by Dr. Nagendra, Professor & Head of theDepartment of Biotechnology, Sir M Visvesvaraya Institute of Technology, Bangalore, on the topic "Role ofEducational Institutions in Promoting Innovations and Entrepreneurship development". The second session was on the topic "IOT in Agro production, Processing and retailing" by Dr. Manpreet Singh Manna.





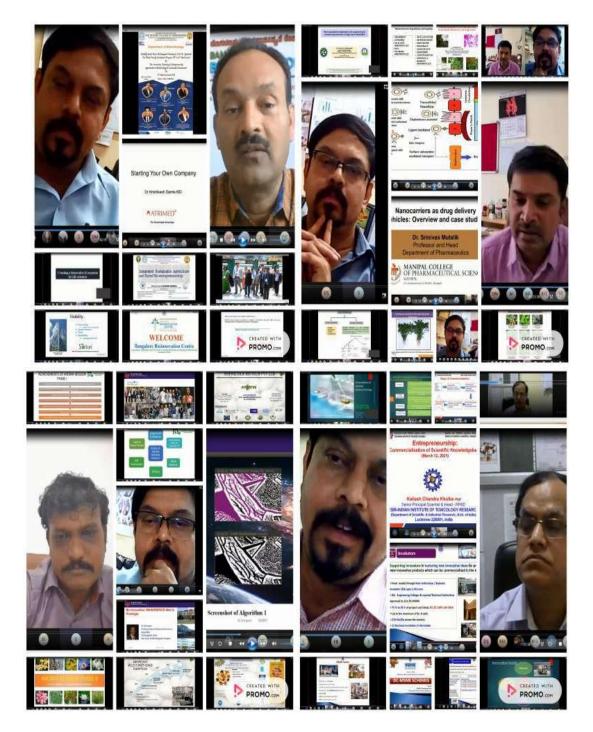
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The Valedictory session was presided by Shri.S.N.V.L Narasimha Raju ,Chairman ,The Oxford Educational Institutions, and the Chief guest was Dr.Manpreet Singh Manna, Former Director,AICTE,Associate Professor,Department of Electrical and Instrumentation Engg,SLIET, Longowal, Punjab and Guest of Honorwas Dr.H.G.Nagendra,Professor&Head,Department of Biotechnology ,Sir M.Visveswaraya Institute of Technology.Dr.B.K.Mnjaunath gave a brief presentation about the details of technical talks happened duringthe 14 days FDP and the participants were overwhelmed with the FDP and they expressed their happiness during the feedback session and the 14day sevent was ended with the vote of thanks by Dr.K.Valarmathy,Associate Professor, Department of Biotechnology, The Oxford College of Engineering. This led to the end of the series of lectures in the two weeks programme. The program on the whole was very informative.

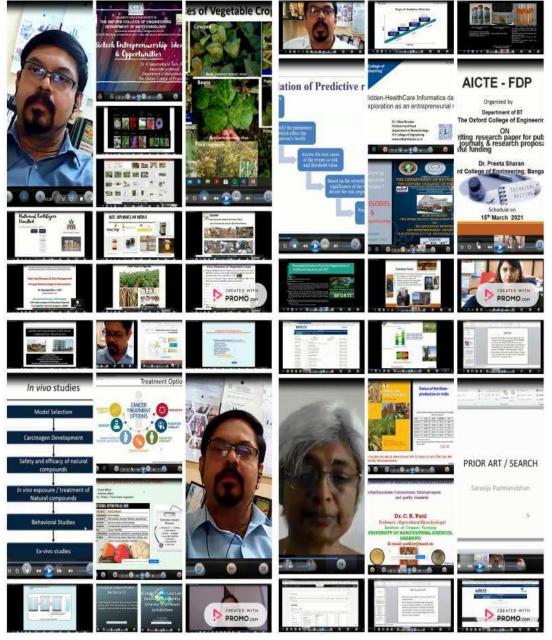


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#### Album of FDP event



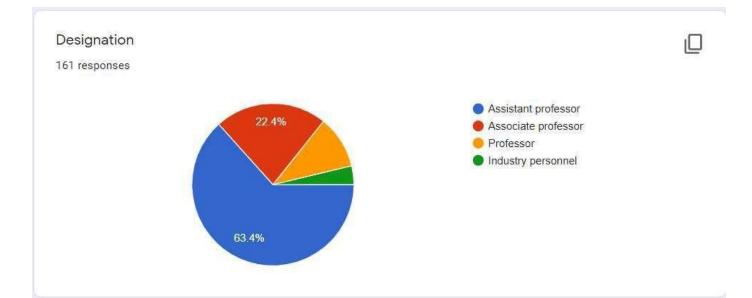


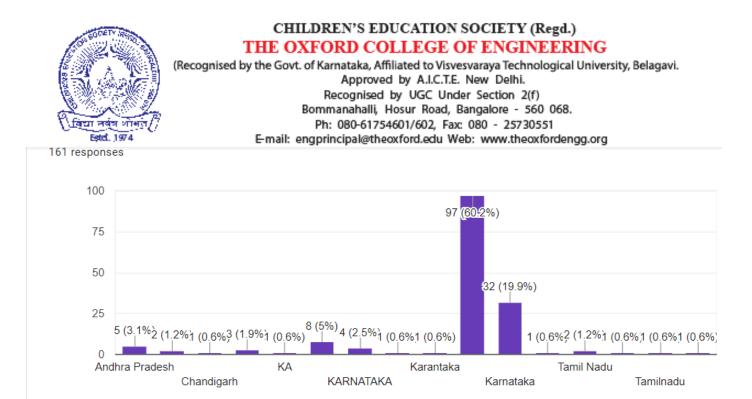




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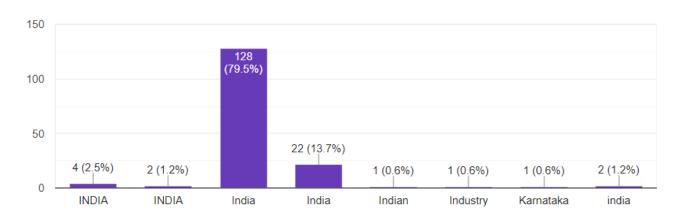
**Details of Registration** 





#### Country

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District for based, 1974Ph: 080-61754601/602, Fax: 080 - 25730551 E-mail: engprincipal/etheoxford.edu Web: www.theoxfordengg.orgCollege2021 03comKuppu676 comcomrytant prof e ssorCollege05/02 2021 50sanjuverma06@gm ail. comDr Sanjeev Verma999782 all. comsanjuverma06@gm ail. comMicrobiol o gyAssis tant bharsar Pauri prof g ssorVCSG UUHF Bharsar Pauri prof g ssor15:23 50Dr. Rashmi S988661 6 004rashms@gmail.com prof 6 004PG Departme tant n n ssorAssis Arts, Commerce and Science05/02 2021vinogenes@gmail.comDr. S. Vinoth989427 7 ovinogenes@gmail.c p 7 oBiotechno assisAssis Sona College of	E S								
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Short term training program (STTP-1) on Recent Trends and Challenges for NPD

**Chief Patron** Shri, S. N. V. L. NARASIMHA RAJU President, Children's Education Society® Chairman, The Oxford Group of Institutions

Patrons Dr. AMARNATH, K Director, The Oxford Group of Institutions.

Dr. A. S. ARAVIND Principal, The Oxford College of Engineering.

Coordinator & Organizing Secretary Dr B R RAIU Professor & Head, Dept. of Automobile Engineering.

#### ABOUT THE INSTITUTE

The Oxford College of Engineering is one of the most prestigious institutions in Bengaluru that provides quality training in professional lucation in various streams of engineering (09 UG, 12 PG Programmes & 12 R&D Centers approved by VTU to carryout Ph.D. & M.Sc. Engg. programme.) The college has dedicated and highly qualified team of faculty who offer quality education to the students as per the academic scheme of VTU. The institution is well known for its Consultancy, Research and Development activities and departments have financial assistance from reputed state. (VGST/KSCST/VTU) & Central (DRDO-NRB, DAE-BRNS, AICTE, ICMR, NIF) funding authorities to cater to the need of young researchers and students in engineering and management domains.

ABOUT THE DEPARTMENT The Department has well equipped laboratories, well qualited & experience staff. The department is eternally engaged in the academic enrichment of students as well as their overall progress by revealing them to the real problems through Industrial Visits, Projects & guidance through Industrial Visits, Projects & guidance through Industrial Visits, Projects & guidance through Industrial Visits, Projects and the staff of the department conducts various value added programs & seminars to enhance students practical knowledge department combance students practical knowledge & seminars to enhance students practical knowledge & employability. The Department started with an intake of 0 students along with PG Course (M.Tech) in Automotive Engineering with an intake of 18 students.

The vision of the department is "To establish the department as a renowned centre of excellence in the area of scientific education, research with industrial guidance and exploration of the latest advances in the rapidly changing field of Automobile Remineavies Automobile Engineering

#### ABOUT THE PROGRAM

The Course will be extremely beneficial to teachers, research scholars and practicing engineers those who aspire to update their knowledge in the recent developments taken place in Product design & Manufacturing in Automobile and Machine Tool

#### **OBJECTIVES**

- OBJECTIVES > To conduct programs to build research, teaching and administration competence for holistic development of individuals. > Recent Trends & Challenges in New Product Development is the process of reducing waste in time, cost, and space in the manufacturing environment. > To create awareness among participants about new tools and techniques used for Product Design & Manufacturing. > The Short Term Training Programme (STTP) is to tupdate the faculty members of the Automobile Mechanical Engineering arross the country on the latest trends in Product design and Manufacturing.

# . AICTE - SPONSORED SHORT TERM TRAINING PROGRAMME (STTP) ON **"RECENT TRENDS &** CHALLENGES IN NEW PRODUCT DEVELOPMENT" ORGANISED BY DEPARTMENT OF AUTOMOBILE ENGINEERING

THE OXFORD COLLEGE OF ENGINEERING proved by AICTE, Accredited by NAAC & A, New Delhi & Affiliated to VTU, Belgauna) \* milestone, Bommanahalli, Hosur Road,

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#### Organizing Committee:

- 1. Prof. Sandeep K Chavan, Asso, Professor
- 2. Prof. Maruthi S B, Asst. Professor
- 3. Prof. S.B.Desai, Asst. Professor 4. Prof. Shivakumar, M Asst. Professor

#### Contact Details:

- Prof. Sandeep K Chavan Assoc, Professor Department of Automobile Engineering, The Oxford College of Engineering, Bangalore
- Skc.toce@gmail.com
- ₩ :+91-8310364667

Prof. Maruthi S B, Asst. Professor, Department of Automobile Engineering, The Oxford College of Engineering, Bangalore

#### 🔍 maruthi.toce@gmail.com

- ₩ : +91-9742180785
- Content of the STTP:
- **Concept Initiation**
- ♦ Product Visualization & Styling
- ♦ Industrial Design
- Engineering Ergonomics
   Rapid Prototyping and Reverse Engineering
- Robust Design
- ♦ Finite Element Analysis in Product
- Design ♦ Applications of PLM in Product

- Reliability Based Design
   Product Architecture
- Other Related Topics

- **RESOURCE PERSONS** Dr. Amarnath. K, Director, The Oxford Group of Institutions, Bangalore.
- + Dr. A. S. Aravind, Principal, The Oxford College
- of Engineering, Bangalore.
   Sri Sadashiva Baligar, Vice-President, Business development, Toyota Kirloskar Auto Parts Pvt.Ltd.
- Sri, S. K. Vijay, General Manager, M/s. TVS Motor Co. Limited, Hosur, T.N.
   Sri, S. Pradeep Kumar, General Manager, M/s.
- KENNAMETAL, Bengahuru \* Sri T. S. Anandakumar, General Manager, M/s.
- BOSCH Limited, Bengaluru Sti Shridhar Ramkrishna, Head-India Technical Centre, M's. TENNECO Powertrain, India,

- Bengaluru.
   Dr. C. K. Srinivas, Former HOD-Rapid Prototyping, M's. CMIT, Bengaluru.
   Dr. S. Seetharamu, Former Director, M's. CPRI, Bengahuru
- Sri. D. R. Kumar, Managing Director, M/s. Skanda M/c. Tools (P) Ltd., Bengaluru.
- + Sri M. Chandrashekhar M. Tiganibidari,
- GM, M/s. Pnuematica Tech.(P). Bengahuru. + Sri M Shivakumar, Managing Partner, M/s
- Unique Precisions, Bengaluru \* Sri D. Shankar Prakash, Technical Director
- Royota engineering Solutions Pvt,Ltd + Dr N.D.Shivakumar, CPDM, IISc, Bangalore.
- Dr. G.L. Samuel, Professor, IIT, Madras.
   Dr. S.S. Hiremath, Professor, IIT, Madras.
- Dr. S. M. Kulkami, Processol M., Maluras, Dr. N.V.R. Naidu, Principal MSRIT, Bangalore
- Dr N.V.R. Naidu, Principal, MSN11, Dangarove,
   Dr Manjunath, Principal, New Horizon college of engineering, Bangalore. + Dr.C.P.S Prakash, Principal, Dayananda Sagar
- College of engineering, Bangalore. + Dr. Suresha. B Professor, R&D Head NIE,
- + Dr A.M.Ravi, Technical Edu, Board, Harihas

## Mode of Conduction: STTP will be conducted in 03 different slots

through on-line mode using Microsoft Team The participants have to register and link will be shared for the registered participants.

Who can Attend

Faculty members from the AICTE approved institutions, Research scholars and various Government Organizations, Universities and Industry professionals working in the related area can participate in the programme.

Registration:

Last date for Registration: 8" October 2020 No Registration Fee Participants have to register by using the below link

https://docs.googlc.com/forms/d/1mrzOcp1TLvK3 LEPZsEFLujJSaQbNFvvPEuCZpgvH7lM/edit



NOTE: A test shall be conducted by program evaluation committee at the end of the program & the e-certificates shall be issued to those participants who have attended the program & have qualified in the test.

#### IMPORTANT DATES

STTP -1: 12<sup>th</sup> -17<sup>th</sup> October, 2020 STTP -2: 2<sup>nd</sup> -7<sup>th</sup> November, 2020 STTP -3: 23rd -28th November, 2020

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# AICTE Sponsored

Short Term Training Programme "Recent Trends & Challenges for New Product Development

#### Report

On

AICTE Sponsored Short Term Training Programme on "Recent Trends & Challenges For NPD"

At

The Oxford College of Engineering, Bengaluru

# STTP-1 From October 12<sup>th</sup>to October 17<sup>th</sup>2020

The AICTE STTP on **"RecentTrends&Challenges for New Product Development"** inaugurated by Dr. Achyutha Rao, Former Head, National Institute of Design, Bengaluru, as a Chiefguest, Dr. Raju B R, FDP Co-ordinator gave welcome speech to all the participants on 12<sup>th</sup>October2020. Total 70 participants had attended the programme and gained the knowledge in the field of NewProduct Development in which 50 outside participants and 20 internal participants were attended. Thesessions were handled by the various subject experts and details of talks are enclosed in the programmeschedule. The Lab Session on Digital Manufacturing-Human, factor analysis by Prof. Sandeep KumarChavan, Bengaluru on 12<sup>th</sup>and 17<sup>th</sup>October 2020. The Valedictory function held on 17<sup>th</sup>October 2020by D Shankar Prakash, Technical Head, Royata Engineering Solutions, Bengaluru was presided over thefunction. Dr. Raju B R, STTP Co-ordinator and Prof. Sandeep Kumar K Chavan, Event Cordinator, Department of Automobile Engineering, The Oxford College of Engineering, Bengaluru has deliveredthe vote of thanks.



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Date: 12<sup>th</sup>October, 2020Inauguration Session

# **AICTE Sponsored**

Short Term Training Programme "Recent trends & Challenges for new productd evelopment"

Inaugurated by Dr. Achyutha Rao, Former Head, National Institute of Design, Bengaluru, as a Chiefguest,





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Day-1 & Date: 12-10-2020

# **Technical Session-1:**

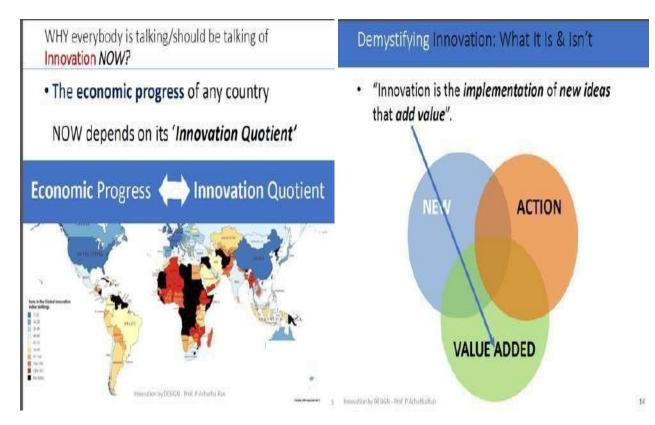
Topic: Growth Through Innovation and New Product Development

**ResourcePerson:** Dr. AchyuthaRao, Former Head, National Institute of Design, Bengaluru The first technical session was started with formal welcome note by Dr. Raju B R, FDP Co-ordinator, Professor and Head, Department of Automobile Engineering. The resource person of this Automobile Engineering, The Oxford College of Engineering

# **AICTE Sponsored**

# Short Term Training Programme "Recent Trends & Challenges for New Product Development"

session, **Dr. Achyutha Rao**, started his discussion with detail description on challenges in the product development process in the various industries like automobile, machinetools, etc. He gave brief overview of manufacturing process in Toyota Production System (TPS). He further added that if faculty wants to develop them selves and their students, then attending such faculty development programs would enhance their skills of teaching the practical concepts. He ended the discussion with the quotation: "WinIndia, Win the World" The session was ended with the vote of thanks given by Dr. Raju B R, Professorand Head, Department of





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Technical Session-2: Topic: Product Design

**ResourcePerson:** Dr. AchyuthaRao, FormerHead, National Institute of Design, Bengaluru Has given talk on Product development is the set of activities beginning with the perception of a market opportunity and ending in the production, sale, and delivery of aproduct. He addresses Characteristics of Successful Product Development and also the explicitly focus on products that are engineered, discrete, and physical.

At the end of the session, Ms. Sandeep K Chavan, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.



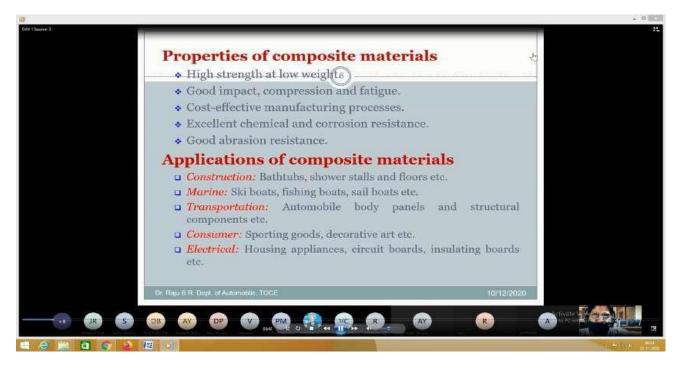


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# Technical Session-3: Topic: Dr. Raju B R

**Resource person:** Dr. Raju B R, HOD, Department of Automobile Engineering, TOCE

Welcome note was presented by Dr. Raju.B. R Professor & Head, Dept, of Automobile Engg, He startedComposites are light in weight when compared to woods and metals. It consists of two or more distinct phases such as matrix phase and a dispersed phase. Metal matrix composites are expensive and limitations in achieving stiffness and toughness for materials to overcome these limitations, hybridmetal matrix composites (HMMC's) are fabricated and designed. In recent years hybrid metal matrixcomposites (HMMC's) are plays a vital role especially in material science in the field of aerospace, marine, transportation, military and structural applications. Aluminium (Al) based metal matrix hybridcomposites are used extensively in the field of automotive industries due to its low density and highstrength-to-weight ratio. At the end of the session, Ms. Sandeep K Chavan, Assistant Professor, Dept, ofAutomobile Engg, delivered vote of thanks to the resource persons and all the participants.





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# Day-2 & Date: 13-10-2020

# Technical session-4:

Topic: Alternative energy source for Automobile - Hybrid Vehicle

**Resource Person**: Dr. Bharath Kumar V S, Professor& Head, Dept. of EEE, T.O.C.E., Bengaluru

Has given technical talk on Historical perspective of development of Hybrid Vehicle and future electriccars are invented to overcome air and sound pollution in present scenario. He given the components of hybrid vehicles and mentioned the pros and cons of future cars. At the end of the session, Ms. SandeepK Chavan, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resourcepersons and all the participants.





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**Technical session-5:** 

**Topic**: Advanced Methods of Manufacturing of Polymer Based Composites for Engg Applications **Resource Person**: Dr. Suresha, Professor, Dean and R&D Head, NIE, Mysore.

Dr. Raju.B. R Professor & Head, Dept, of Automobile Engg, welcomes the resource person and thedelegates of the session. Has given overview of Methods of Manufacturing materials and also shareknowledge on Composite materials and its various applications.

At the end of the session, Mr. SandeepKumarC, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.





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## Technical session-6:

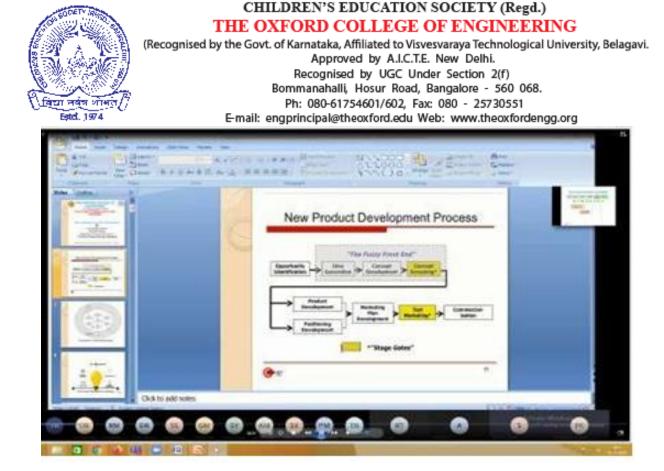
**Topic:** Applications of PLM in Product development

Resource Person: Mr. Sandeep K Chavan, Associate Professor, TOCE, Bengaluru

Dr. Raju.B. R Professor and Head, Dept, of Automobile Engg, welcomes the resource person and thedelegates of the session. Lecturer on core knowledge on Components of Product life cycle management (PLM) & thirst Opportunities in PLM for better product which is going to be delivering on time to the consumers & importance of data acquisition for various products to systematized the processes inmanufacturing industries by using Product Data Management-PDM.

At the end of the session, Mr. Maruthi S B, Assistant Professor, Dept, of Automobile Engg, deliveredvote of thanks to the resource persons and all the participants.







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Day-3 & Date: 14-10-2020 Technical session-7:

**Topic:** Fully Engineered Pandemic Covid-19

**Resource Person**: Dr. Shashidhar M S & Head, Dept of MCA, T.O.C.E., Bangalore

As a resource person of the session, highlighted the importance of Epidemic a wide spread occurrence of an infectious disease in a community at a particular time Pandemic: (of adisease) prevalent over a whole country or the world. This large group of medical experts publishes a medical newspaper on **500,000 copies every week**, to inform the public about the massive misinformation in the mainstream media. They also organize mass protests in Europe, like the one on August 29, 2020 where **12 million people signed up** and several millions actually showed up.







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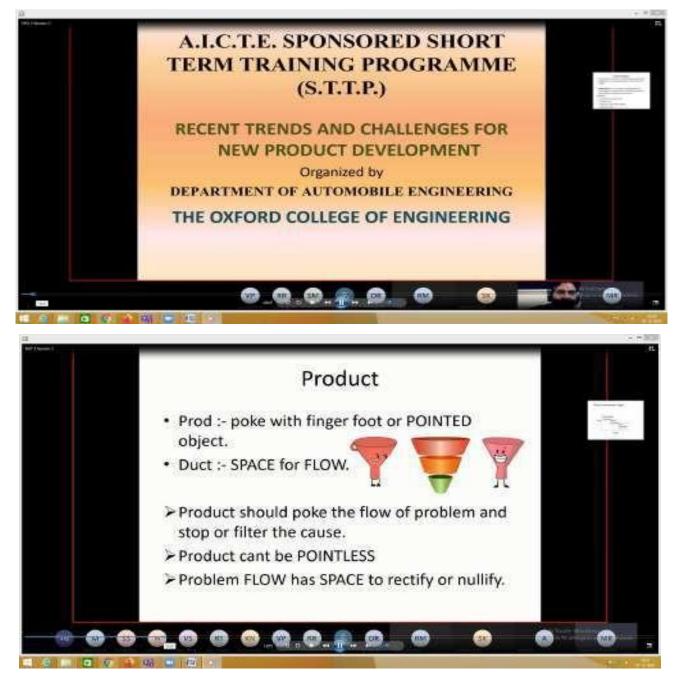
# **AICTE Sponsored**

Short Term Training Programme "Recenttrends&Challengesfornewproductdevelopment **Technical session-**8:

Topic: Concept Initiation and Creative Thinking

**Resource Person**: Mr. Madhu Mohan R, HOD, DIR, AMCE, Bengaluru

The third day technical session-8was started with **Madhu Mohan**. He briefed the Concept is a ABSTRACT IDEA which is not in physical existence, sometimes it's a PURE FORMOFART which is drawn in air, illustrated and developed. Hyper creative thought process to result in need statements and wiching Architectural engineering & construction Gaming Graphics Design, Manufacturing Mechatronics, Product design and robotics.



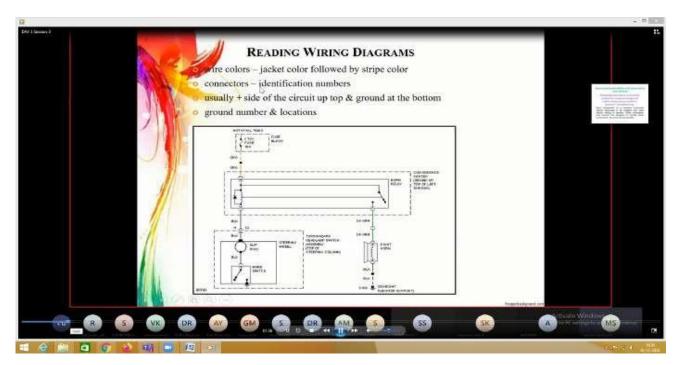


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Technical session-9:

**Topic:** A concept of Wiring, Lighting system in Automotive Electrical and Electronics Systems for NPD **Resource Person**: Mr. Maruthi S B, Assistant Professor, TOCE, Bengaluru

The last session of the day was He aded by Prof. Maruthi SB, He started with the History and generation of cars to the present Hybrid Electric cars. He explained the product design and development of various electrical accessories of the automotive vehicles and the methods of testing the head lampsand tail lamps of car. He concluded the topic by giving the future lightning system and wiring diagrams of the Automotive vehicle.





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## **AICTE Sponsored**

Short Term Training Programme "Recent trends & Challenges for newproduct development"

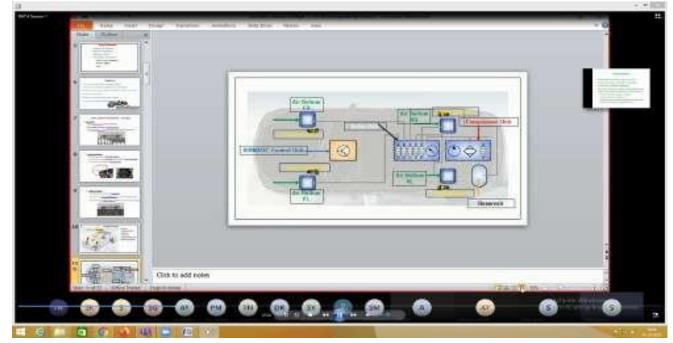
Day-4 & Date: 15-10-2020

Technical session-10:

**Topic:** Adaptive Electronic Suspension systems

**Resource Person:** Dr. Raju. B.R Professor & Head, Dept, of Automobile Engg, T.O.C.E., Bengaluru He started the session with the basics of properties of matrix and reinforcement Discussion and Furtherhe defined the difference between the composites and ferrous metals & well described the variousmeasures of hybrid composites which has tremendous applications in the automotive industries.



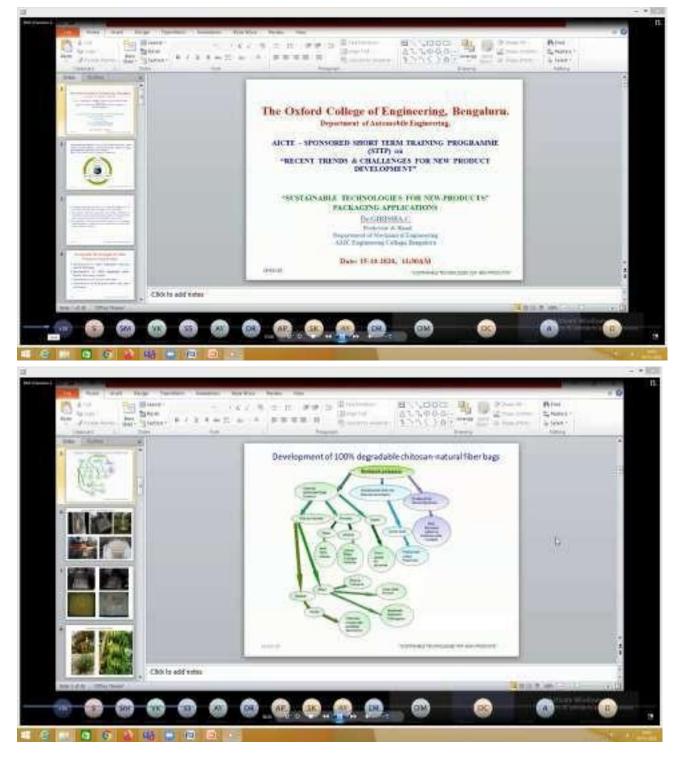




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Technical session-11:

**Topic:** Sustainable Technologies for New-Products "Packaging Applications" **Resource Person**: Dr. Girisha C Professor & Head, Dept, of Mechanical Engg. T.O.C.E., Bengaluru Mr. Sandeep k chavan welcomed the resource person and delegates of the 11th technical session. Technical session was started by Dr. Girisha C He started his discussion with the various multivariatetechniques, their need and importance in quality parameters in production process.





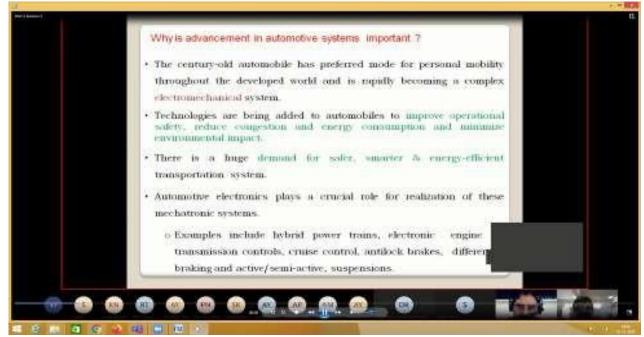
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Technical session-12:

Topic: Autotronics: Improving Vehicle Performance

Resource Person: Dr. J Ravi Professor, GAT, Bengaluru

Dr. Raju.B. R Professor & Head, Dept, of Automobile Engg, welcomes the resource person and the delegates of the session. Resource person of the technical session, Prof. J Ravi discussed in detailimportance of Research scenario in the field of Automotive and its vehicle performance yearby year. He explained in detail the manufacturing process of the Automotive vehicles and the various sensors used in the vehicles.







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# **AICTE Sponsored**

Short Term Training Programme "Recent trends & Challenges for new product development"

Day-5 & Date: 16-10-2020 Technical session-13:

**Topic:** Application of Ergonomics in New Product Design and Development **Resource Person:** Mr. Shridhar Ramakrishna, Principal, T.O.C.E., Bengaluru

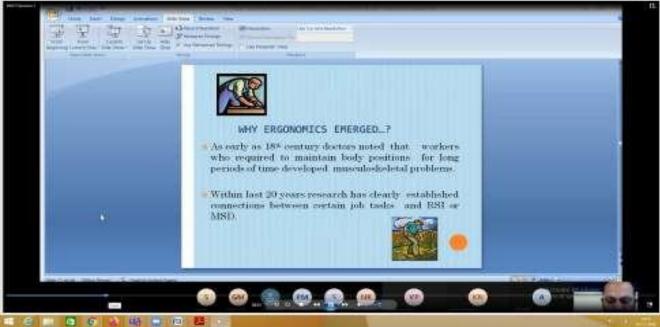
In the Fourth day's technical session, welcome note was presented by Dr. Raju.B. R Professor & Head, Dept, of Automobile Engg, Dr. R V Praveena Gowda, as a resource person of the session, started his discussion with the basic idea of Process optimization of manufacturing process and gave brief discussion on adaptive and smart manufacturing. He deeply explained future materials which are biodegradable in nature i. e Biocomposite and also enlightened the participants to involve in researchwork on biocomposites.

At the end of the session, Ms. Sandeep K Chavan, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.





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Technical session-14:

Topic: Power of Artificial Intelligence in PDM

Resource Person: Dr. M S Shashidhara, Professor & Head, MCA, T.O.C.E., Bengaluru

Prof. B Dr. MS Shashidhara, Professor has begun his talk by explaining power of artificial in telligence to create insights and detect patterns and anomalies that escape detection by the cognitive. He described, In design engineering domain, integrated concepts of artificial in telligence in to commercial PDM systems. The software is based on a dynamic and flexible work flow model, asopposed to the deterministic workflows seen in most commercial PDM applications.

Mr. Harish Kumar, Assistant Professor, Dept, of Automobile Engg, ended the session with vote ofthanks to the resource person and the delegates.





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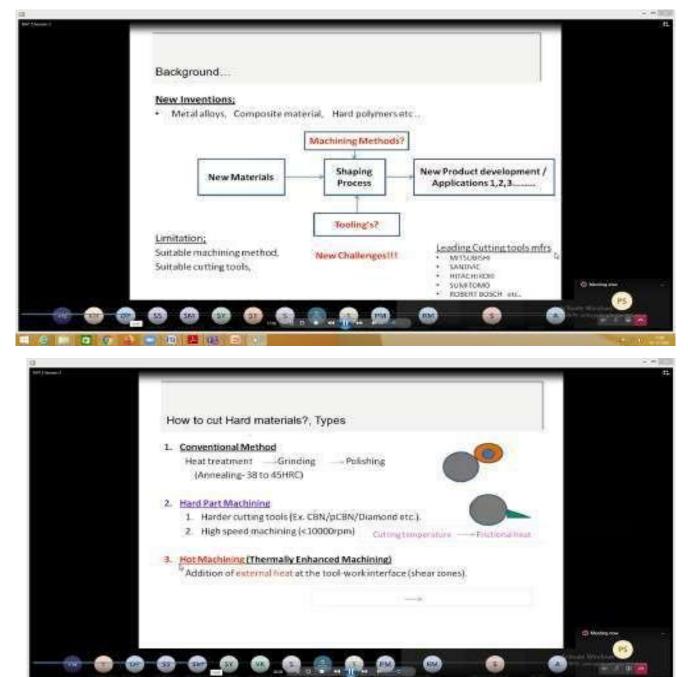
AICTE Sponsored

Short Term Training Programme "Recent Trends & Challenges for New Product Development" Technical session-15:

**Topic:** Development of Tooling's in Hard Turning of High-Chrome White Cast Iron.

**Resource Person**: Dr. Ravi A M, Professor, SGL, Dept of Technical Education.

Dr. Ravi A M, Professor discussed in detail importance Design and Development of Tooling's in Hard Chrome white Iron and the integration of product design and process planning into one common activity. The goal is to design a product that is easily and economically manufactured and explained theMachined Part Design Guidelines, Elements of the Manufacturing Cost of a Product





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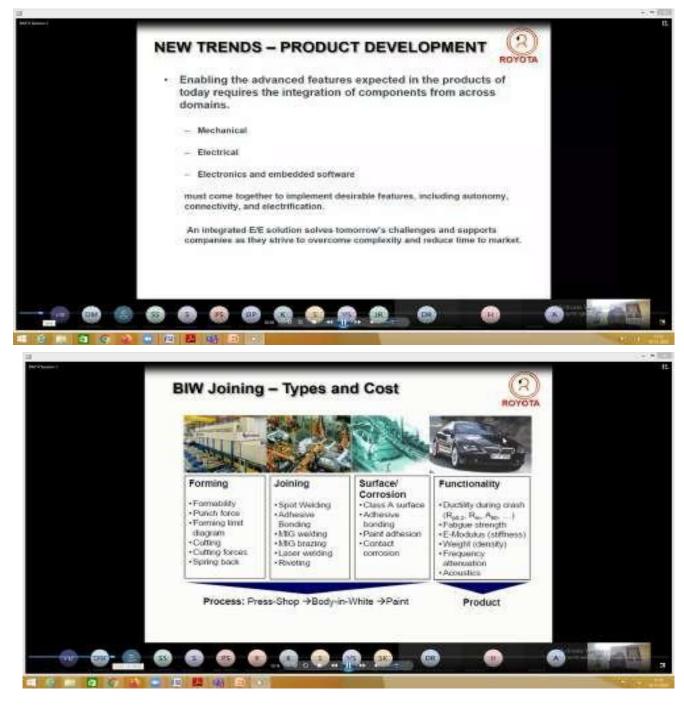
Day-6 & Date: 17-10-2020

#### Technical session-16:

Topic: Autonomous Driving.

#### Resource Person: D. Shankar Prakash, Professor, Royota Engineering Solutions.

D. Shankar Prakash, Professor discussed in detail Advanced driver-assistance systems (ADAS) areelectronic systems that assist drivers in driving and parking functions Through a safe humanmachineinterface, ADAS increase car and road safety ADAS systems use automated technology, such as sensorsand cameras, to detect nearby obstacles or driver errors, and respond accordingly.





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Short Term Training Programme "Recent trends & Challenges for new product development

#### Technical session-17:

**Topic:** Recent Trend and Challenges in New Product Development.

#### **Resource Person**: D. Shankar Prakash, Professor, Royota Engineering Solutions.

D. Shankar Prakash, Professor discussed theimprovements and influence of real-world performance, Computer aided engineering simulation allows engineers to see in to the future, predicting the consequence of any design change on the real-world performance of their products Deployed effectively, it can be used to improve our design through multipleiterations, providing data to guide the design process from its earliest stages, through to production and beyond.







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Valedictory Function:

On the valedictory ceremony, Dr. Y Vijaya Kumar Principal, Sai Ram College of Engg., Bangalore jointhe session as a chief guest, along with Dr. R Nagaraj, Director of The Oxford Group of Institutions, Bangaluru, Dr. R J Anandhi, Vice Principal, The Oxford College of Engineering, Benagluru, Dr. Raju BR, FDP Coordinator, Professor and Head, Department of Automobile Engineering, Dr. N B Doddapattar.Prof & Head, Dept of Mechanical, TOCE, Banglore

Onthisoccasion, Dr. RNagaraj, DirectorofTheOxfordGroupofInstitutionsinhisaddress, appreciates Dr. Raju B R, FDP Coordinator along with her team, for successful completion of theprogram.

Dr. Raju B R, FDP Coordinator, welcomes, Dr. Y Vijaya Kumar Principal, Sai Ram College of Engg., chief guest of the valedictory ceremony and resource person of the session along with advisory board, media persons and all the dignitaries and delegates presented on valedictory session.

At the end, the valedictory session was concluded with a vote of thanks given by Mr. Sandeep Kumar KChavan, Assistant Professor, Dept, of Automobile Engg, in which he has been paid hir gratitude towardsall the dignitaries who has spared their time and come from a far distance places to share their expertisewith the participants. He has also thanked the media persons for their continuous coverage of the entireprogramme.



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#### **AICTE Sponsored**

#### Short Term Training Programme "Recent trends & Challenges for new product development"

Nevertheless, he has given thanks to sponsoring body of this FDP i.e. AICTE with these words, "We arehighly thankful to the AICTE for providing financial assistance to organize this FDP in our campus andhope we will find the support in future also for organizing such kind of activities."

#### Feedback from the Participants:

The feedback of the participants was very positive and motivational for the organizers. All the participants appreciated the pick and drop facility, food, lodging and boarding arrangements of theinstitute. Moreover, all the resource persons were of repute in their respective fields and the knowledgeimparted by them was very useful in their forthcoming academic endeavors.

**Chief Patron** Shri, S. N. V. L. NARASIMHA RAJU

President, Children's Education Society® Chairman, The Oxford Group of Institutions.

Patrons Dr. AMARNATH. K Director, The Oxford Group of Institutions.

Dr A S ARAVIND Principal, The Oxford College of Engineering.

Coordinator & Organizing Secretary Dr B R RAJU Professor & Head, Dept. of Automobile Engineering.

#### ABOUT THE INSTITUTE

The Oxford College of Engineering is one of the most prestigious institutions in Bengaluru that provides quality training in professional education in various streams of engineering (09 UG, 12 PG Programmes & 12 R&D Centers approved by VTU to carryout Ph.D. & M.Sc. Engg. programme.) The college has dedicated and highly qualified team of faculty who offer quality education to the students as per the academic scheme of VTU. The institution is well known for its Consultancy, Research and Development activities and departments have financial assistance from reputed state. (VGST/KSCST/VTU) & Central (DRDO-NRB, DAE-BRNS, AICTE, ICMR, NIF) funding authorities to cater to the need of young researchers and students in engineering and management domains.

#### ABOUT THE DEPARTMENT

The Department has well equipped laboratories, well qualified & experience staff. The department is eternally engaged in the academic enrichment of students as well as their overall progress by revealing them to the real problems through Industrial Visits, Projects & guidance through participation in various competitions. I department conducts various value added progra & seminars to enhance students practical knowled The & employability. The Department started with an intake of 60 students along with PG Course (MTech) in Automotive Engineering with an intake of 18 students.

The vision of the department is to establish the department as a renowned centre of excellence in the area of scientific education, research with industrial guidance and exploration of the latest advances in the rapidly changing field of changing field of Automobile Engineering

#### ABOUT THE PROGRAM

The Course will be extremely beneficial to teachers, research scholars and practicing engineers those who aspire to update their knowledge in the recent developments taken place in Product design & Manufacturing in Automobile and Machine Tool industries

#### **OBJECTIVES**

- To conduct programs to build research, teaching and administration competence for holistic development of individuals.
   To reduce the waste in time, cost, and space in Data and space in time.
- To relate the water in line, cost and space in Design and manufacturing environment.
   To create awareness among participants about new tools and techniques used for Product Design & Manufacturing.
   To enhance the localized of faculty members.
- To enhance the knowledge of faculty members in the Automobile, Mechanical and other Engineering disciplines across the country on the latest trends in Product Design and Manufacturing.





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### Organizing Committee:

- 1. Prof. Sandeep K Chavan, Asso, Professor
- 2. Prof. Maruthi S B, Asst. Professor
- 3. Prof. S.B.Desai, Asst. Professor
- 4. Prof. Shivakumar, M M Asst. Professor

#### Contact Details:

# Prof. Sandeep K Chavan Assoc, Professor

Department of Automobile Engineering, The Oxford College of Engineering, Bangalore

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+91-8310364667

#### Prof. Maruthi S B, Asst. Professor,

#### Department of Automobile Engineering,

The Oxford College of Engineering, Bangalore

#### 🙈 maruthi toce@gmail.com

H: +91-9742180785

#### Content of the STTP:

- Concept Initiation
- Product Visualization & Styling
- Industrial Design
- Engineering Ergonomics
- Rapid Prototyping and Reverse Engineering
- Robust Design
- Finite Element Analysis in Product Design
- Applications of PLM in Product Development
- Patents & Intellectual Property Rights
- Reliability Based Design
- Product Architecture
- Other Related Topics

#### RESOURCE PERSONS

- + Dr. Amamath K, Director, The Oxford Group of Institutions, Bengahuru
- + Dr. A. S. Aravind, Principal, The Oxford College of Engineering, Bengahuru.
- \* Sri. Sadashiva Baligar, Vice-President, Business Development, TOYOTA KIRLOSKAR Auto Parts Put. Limited, Bengaluru.
- \* Sri, S. K. Vijay, General Manager, M/s TVS Motor Co. Limited, Hosur, Tamil Nadu
- + Sri. S. Pradeep Kumar, General Manager, M/s. KENNAMETAL, Bengaluru
- + Sri. T. S. Anandakumar, General Manager, M/s. BOSCH Limited, Bengaluru
- + Sri Sridhar Ramakrishna, Head-India Technical Centre, M/s. TENNECO Powertrain, India. Bengahuru
- + Dr. C. K Srinivas, Former HOD-Rapid Prototyping, M/s. CMIT, Bengaluru
- + Dr. S. Seetharamu, Former Director, M/s. CPRI, Bengahuru
- + Sri. D. R. Kumar, Managing Director, M/s. SKANDA M/c. Tools (P) Ltd., Bengaluru.
- + Sri. Chandrashekhar M Tiganibidari, GM, M/s. PNUEMATICA Tech (P) Ltd. Bengahuru
- + Sri M Shivakumar, Managing Partner, M/s. UNIQUE Precisions, Bengahuru
- + Sri, D. Shankar Prakash, Technical Director, M/s. ROYOTA Engg. Solutions (P) Ltd, Bengaluru.
- + Dr. N.D. Shivakumar, CPDM, IISc, Bangalore.
- + Dr. G.L. Samuel, Professor, IIT, Madras.
- + Dr. A. M. Ravi, Technical Edu Board, Harihar.
- + Dr. S. M. Kulkami, NITK, Surathkal,
- + Dr. N.V.R. Naidu, Principal, MSRIT, Bangalore.
- \* Dr. Manjunatha, Principal, New Horizon College of Engineering, Bangalore.
- + Dr. K.N. Subramanya, Principal, R. V. College of Engineering, Bengaluru,
- + Dr. Suresha B. Professor and R&D Head, NIE. Mysore.
- + Dr. S.S. Hiremath, Professor, IIT, Madras.

### Mode of Conduction:

STTP will be conducted in 03 different slots through on-line mode using Microsoft Team. The participants have to register and link will be shared for the registered participants.

### Who can Attend:

Faculty members from the AICTE approved institutions, Research scholars and various Government Organizations, Universities and Industry professionals working in the related area can participate in the programme.

#### Registration:

Last date for Registration: 2rd November 2020 No Registration Fee Participants have to register by using the below link

#### https://forms.gle/evSCriwC7ThNDk6i8



#### NOTE:

A test shall be conducted by program evaluation committee at the end of the program & the e-certificates shall be issued to those participants who have attended the program & have qualified in the test.

STTP-2: 2nd - 7th November, 2020 STTP-3: 23rd - 28th November, 2020



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#### **AICTE Sponsored**

# Date: 02<sup>nd</sup>November, 2020Inauguration Session Short Term Training Programme "Recent Trends & Challenges for New Product Development" Report On

AICTE Sponsored Short Term Training Programme on "Recent Trends & Challenges For NPD" At

The Oxford College of Engineering, Bengaluru

# STTP-2 FROM 02<sup>nd</sup>November to 09<sup>th</sup>November 2020

The AICTE STTP on "RecentTrends & Challenges for New Product Development" inaugurated by Dr. K N Subramanya, principal, R V College of Engineering, Bengaluru, as a Chiefguest, Dr. RajuBR, FDPCo-ordinator gave welcome speech to all the participants. Total 70 participants had attended the programme and gained the knowledge in the field of New Product Development in which 55 outside participants and 15 internal participants were attended. The sessions were handled by the various subject experts and details of talks are enclosed in the programmes chedule.The Lab Session on Data science and Python was handled by Prof. Sandeep Kumar Chavan, Bengaluru on 02<sup>nd</sup>and 09<sup>h</sup>November 2020. The Valedictory function held on 09<sup>h</sup>November 2020 by D Shankar Prakash, Technical Head, Royata Engineering Solutions, BengaluruwastheChiefguestandDr. G.T Raju ,Principal, The Oxford College of Engineering, Bengaluru was presided over the function.Dr.RajuBR,STTP Co-ordinatorandProf.Sandeep **KumarK** Chavan, Event Cordinator, Department of Automobile Engineering, The Oxford College of Engineering, Bengaluru has delivered the vote of thanks.



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#### Short Term Training Programme "Recent Trends & Challenges for New Product Development"

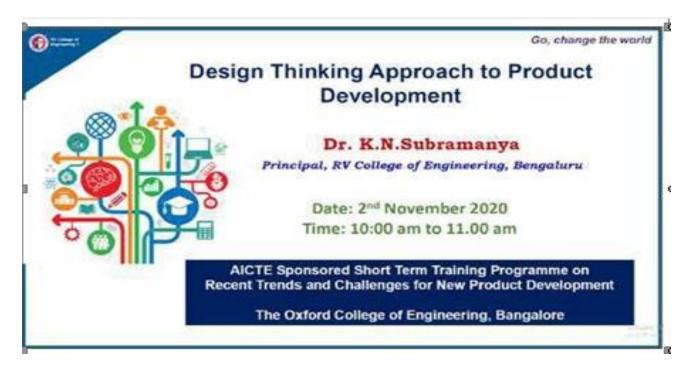
Inaugurated by Dr. K N Subramanya, principal, R V College of Engineering, Bengaluru, as a Chiefguest, followedby Key note address on the Design Thinking Approach to product Development.

Day-1 & Date: 12-10-2020

Technical Session-1:

**Topic:** Growth Through Innovation and New Product Development

**Resource Person:** Dr. K N Subramanya, Principal, R V College of Engineering, Bengaluru. Thefirst technical session was started with formal welcome note by Dr. Raju B R, FDP Co-ordinator, Professor and Head, Department of Automobile Engineering. The resource person of this session, Dr. KN **Subramanya**, started his discussion with detail description on challenges in the product development process in the various industries like automobile, machine tools, etc. He gave brief over view of manufacturing process in Toyota Production System (TPS). He further added that if faculty wants to develop them selves and their students, then attending such faculty development programs woulden hance their skills of teaching the practical concepts. He ended the discussion with the quotation: "WinIndia, Win the World" The session was ended with the vote of thanks given by Dr. Raju B R, Professorand Head, Department of Automobile Engineering, The Oxford College of Engineering.







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### AICTE Sponsored

Short Term Training Programme "Recent Trends & Challenges for New Product Development"

Technical Session-2:

Topic: Innovation and creativity for NPD

ResourcePerson: Dr. RajuBR, HOD, Department of Automobile Engineering, TOCE, Bengaluru Has given talk on Product development is the set of activities beginning with the perception of a market opportunity and ending in the production, sale, and delivery of a product. He addressesCharacteristics of Successful Product Development and also the explicitly focus on products that areengineered, discrete, and physical.

At the end of the session, Ms. Sandeep K Chavan, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.



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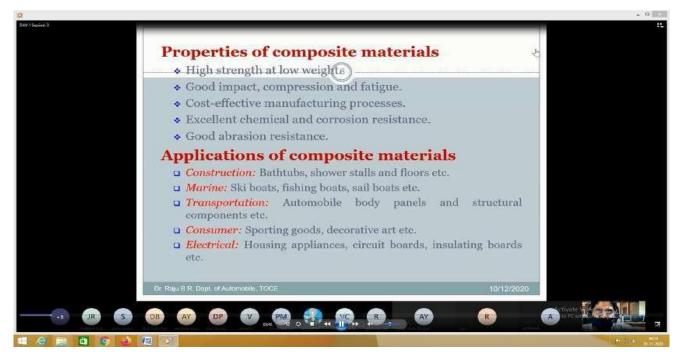


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Technical Session-3: Topic: Dr. Raju B R

**Resource person**: Dr. Raju B R, HOD, Department of Automobile Engineering, TOCE

Welcome note was presented by Dr. Raju.B. R Professor & Head, Dept, of Automobile Engg, He startedComposites are light in weight when compared to woods and metals. It consists of two or more distinct phases such as matrix phase and a dispersed phase. Metal matrix composites are expensive and limitations in achievings tiffness and toughness for materials to over come these limitations, hybridmetal matrix composites (HMMC's) are fabricated and designed. In recent years hybrid metal matrix composites (HMMC's) are plays a vital role especially in material science in the field of aerospace, marine, transportation, military and structural applications. Aluminium (Al) based metal matrix hybridcomposites are used extensively in the field of automotive industries due to its low density and highstrength-to-weight ratio. At the end of the session, Ms. Sandeep K Chavan, Assistant Professor, Dept, ofAutomobile Engg, delivered vote of thanks to the resource persons and all the participants.





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### Short Term Training Programme "Recent trends & Challenges for new product development"

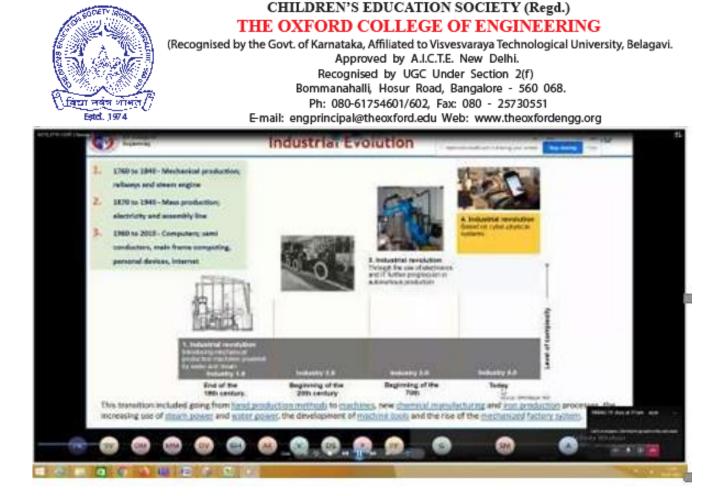
**Day 4:** Technical session-4:

#### **Topic**: Internet of Things

Resource Person: Dr. Shanmukha Nagaraj, Professor RVCE Bangalore

Has given technical talk on Internet of Thingshave evolved due to the convergence of multiple technologies, real-time analytics, machine learning, commodity sensors, and embeddedsystems. Traditional fields of embedded systems, wireless sensor networks, controlsystems, automation (including home and building automation), and others all contribute to enabling theInternetofthings. In the consumer market, IOT technology is most synonymous with products per taining to the concept of the "smarthome", including devices and appliances (such as lighting fixtures, thermostats, home security systems and cameras, and other home appliances) that support one or more common ecosystems, and can be controlled via devices associated with that ecosystem, such as smart phones and smart speakers. IOT can also be used in healthcare systems.







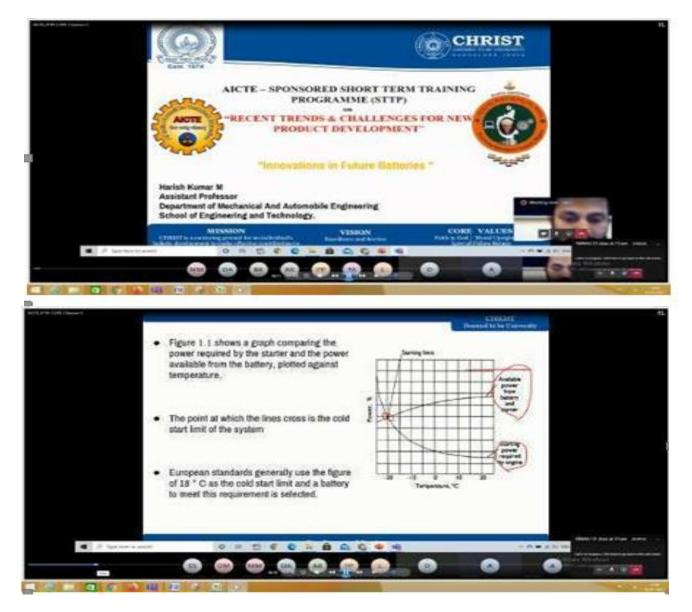
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Technical session-5:

**Topic**: Innovation in Future Batteries **Resource Person:** Harish Kumar M, Associate Professor, Christ University Bangalore. Mr. SandeepKumar Chavan Associate Professor, Dept of Automobile Engg, welcomes their source person and the delegates of the session. Has given overview of Batteries and their functions.

Resource person has delivered the technical talk on the present trends of Batteries and their importancetowardstheElectricVehicles.**Batterytechnology** is expected to evolve from the current lithiumion **battery** (LIB) to **next-generation** high capacity LIBs, all solid-state **batteries**, and lithium metalbased **batteries**, resulting in improvements in energy density, safety, and **battery** lifespan, as well asreduction incost.

Attheend of the session, Mr. Maruthi SB, Assistant Professor, Dept of Automobile Engg, deliveredvote of thanks to the resource persons and all the participants.





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# **AICTE Sponsored**

Short Term Training Programme "Recent Trends & Challenges for New Product Development"

#### Technical session-6:

Topic: Idea to invention for the NPD

**Resource Person**: Mr. Sandeep K Chavan, Associate Professor, TOCE, Bengaluru Mr. Sandeep Kumar Chavan Associate Professor, Dept of Automobile Engg, welcomes the resourceperson and the delegates of the session.

India is a country with a great tradition for innovation, creativity and entrepreneurship. There areseveral legendary examples of innovation which can easily be cited. Innovation of zero and positionalnumber system several schools of logic and knowledge representation, etc.

At the end of the session, Mr. Maruthi SB, Assistant Professor, Dept, of Automobile Engg, deliveredvote of thanks to the resource persons and all the participants.







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Day-3 & Date: 04-11-2020 Technical session-7:

**Topic:** Challenges in New product development

Resource Person: Mr. Vinay Vittal, Project Manager, RBEI, Bangalore

As a resource person of the session, highlighted There is more than one reason why companies shouldcreate new products. Developing quality new engineering products consistently and having a strong hold in your nichemarket is one of the most powerful but difficult activities in business (ClarkandWheelwright 1995). 75% of new product developments fail, which shows how challenging it can be forthe new engineering product design team to succeed. Product designers face various challenges during the development cycle, however, not all of them are technical. Some of the challenges are due to external factors such as cost, economic changes, competitor influence, company policy etc.







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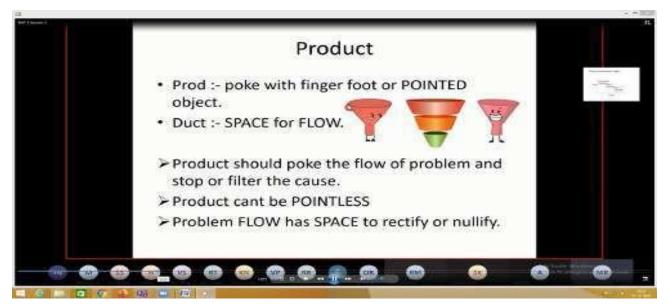
Technical session-8:

**Topic:** Investigation of Mechanical properties on Hybrid fiber with filler material.

#### Resource Person: Mr. Shivakumar MM, TOCE, Bengaluru

The third day technical session-8 was started with **Shivakumar MM.** He briefed the "Compositematerial is material made from two or more constituents' materials with significantly different physicalor chemical properties" whencombining these two materials to form composite. Now a days thecomposite material is consuming more in all branches of engineering because of unique pattern of properties follows, Improved fatigue, toughness and Stiffness. High corrosion resistance and antifriction properties. It has well durability and low maintenance cost compare with other conventional materials.







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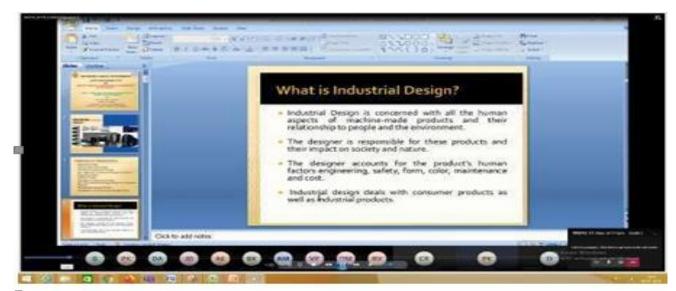
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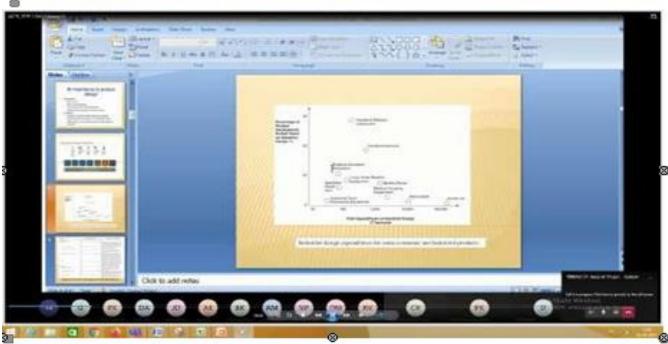
#### Technical session-9:

Topic: Impact of Industrial Design on New Product Development

Resource Person: Mr. Sandeep K Chavan, Asso Professor, TOCE, Bengaluru

The last session of the day was Headed by Prof. Sandeep K Chavan. He started with the History of several millennia before the on set of industrial design, technical expertise and manufacture lay together in the hands of individualcraftsmen, who determined the formof a product at the point of itscreation according to their ownmanual skill, the parameters set bytheir clients, the experienceaccumulated through their ownexperimentation and traditionalknowledge passed on to them throughtraining or apprenticeship.







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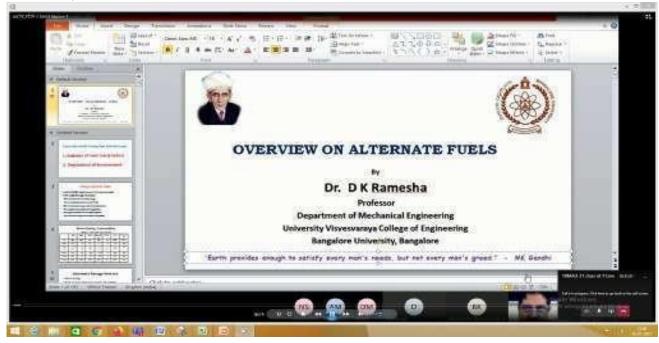
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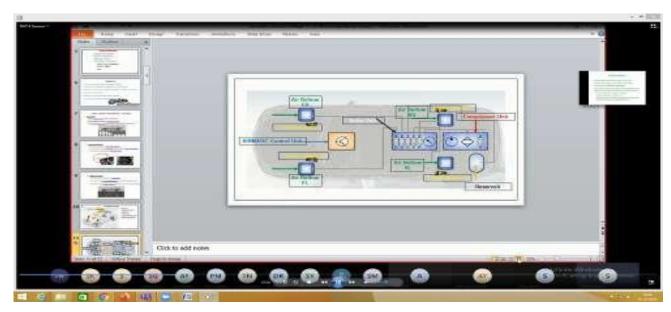
Day-4 & Date: 05-11-2020 Technical session-10:

**Topic:** Overview on Alternative Fuels

Resource Person: Dr. D K Ramesh, Dept of Mechanical Engg. UVCE, Bengaluru

He started the session with the basics of Most of the alternative fuels have properties similar to those of the existing fuels, and there fore the technology required to handle them is already wellknown. Hydrogen is an exception to this, and it sign it on properties are quite different from those of the conventional fuels. Alternative fuels include gaseous fuels such as hydrogen, natural gas, and propane; alcohols such as ethanol, methanol, and butanol; vegetable and wastederived oils; andelectricity.







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Technical session-11:

**Topic:** New Trends in Diesel Engines/vehicles for meeting indian Exhaust gas Emission Norms **Resource Person**: Sri. K. Jayanna, Former- Executive, Bosch Ltd. R & D, Department, Bangalore Mr. Sandeep k chavan welcomed the resource person and delegates of the 11th technical session. Technical session was started by Dr. Girisha C He started his discussion with the various multivariatetechniques, their need and importance in quality parameters in production process.







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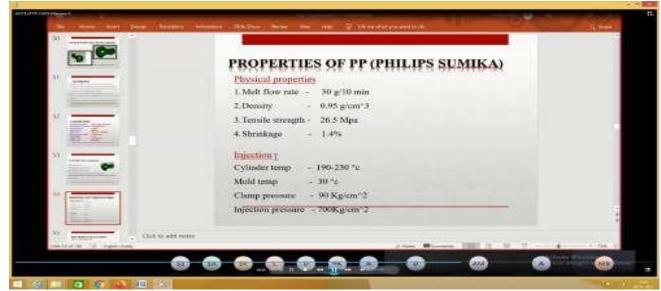
Technical session-12:

Topic: New Product Development in Automotive Industries

Resource Person: Mr. Maruthi S B, TOCE, Bengaluru

Dr. Raju.B. R Professor & Head, Dept, of Automobile Engg, welcomes the resource person and thedelegates of the session. Resource person of the technical session, Prof. Maruthi S B discussed in detailimportance of NPD in the present generation and also said that product opens an entirely newmarket, product thatadopts orreplaces anexisting productproduct that significantly broadens the market oran existing productold product introducedin a newmarket old product packaged in a differentway.







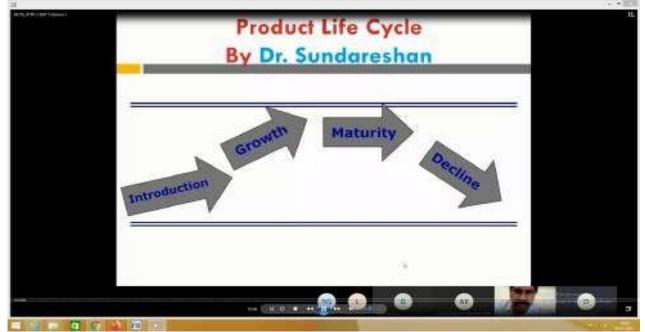
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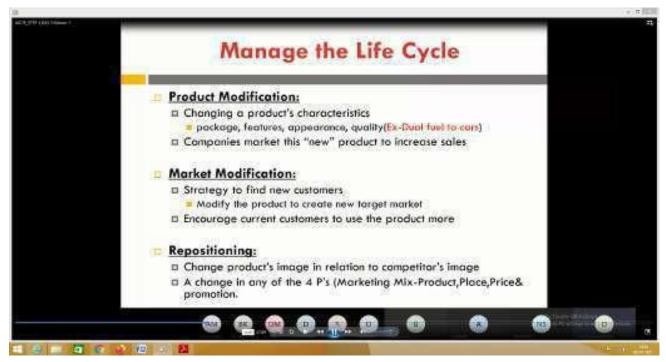
Day 5 Technical session-13: Topic: Product Life Cycle

**Resource Person**: Dr. Sundereshan S D, Visiting Faculty, Bengaluru

In the Fifth day's technical session, welcome note was presented by Dr. Raju.B. R Professor & Head, Dept, of Automobile Engg, Dr. Sundereshan, as a resource person of the session, started his discussionwith the basic idea of Process optimisation of manufacturing process and gave brief discussion on adaptive and smart manufacturing. He deeply explained what is Applied Engineering and its commercial business strategies.

At the end of the session, Mr. Sandeep K Chavan, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants.







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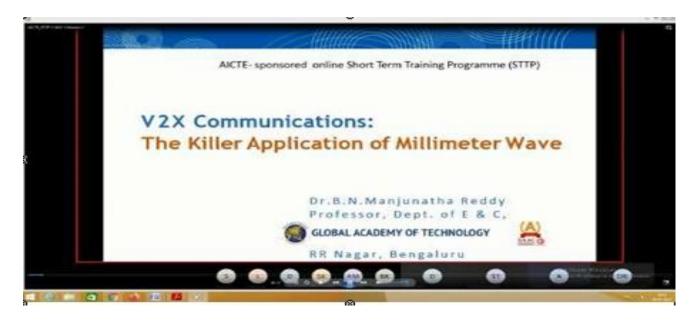
Technical session-14:

Topic: V2X Communications

**Resource Person**: Dr. B N Manjunath Reddy, Professor, Dept of E&C, GAT., Bengaluru

Prof. B Dr. B N Manjunath Reddy, Professor has begun his talk by explaining V2X, stands for 'vehicleto everything', is the umbrella term for the car's communication system, where information from sensorsand other sources travels via high-bandwidth, low-latency, high-reliability links, paving the way to fullyautonomous driving. V2X communication systems are mainly used for the purpose of increasing safety. In a traditional vehicle, V2X system scan convey important information to the driver regarding inclement weather, nearby accidents, road conditions, and the dangerous activities of nearby vehiclesand preventing collisions

Mr. MaruthiSB, Assistant Professor, Dept, of Automobile Engg, ended the session with vote of thanks to the resource person and the delegates.







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Technical session-15: Topic: Trends & Challenges in NPD.

**Resource Person:** Dr. Amardeepak. M Professor, Dept. of ME, Cambridge Institute of Technology. Dr. Amardeepak, Professor discussed in detail importance Design and Development of Tooling's in HardChromewhiteIronandtheintegrationofproduct

designandprocessplanningintoonecommonactivity. The goal is to design a product that is easily and economically manufactured and explained the Machined Part Design Guidelines, Elements of the Manufacturing Cost of a Product





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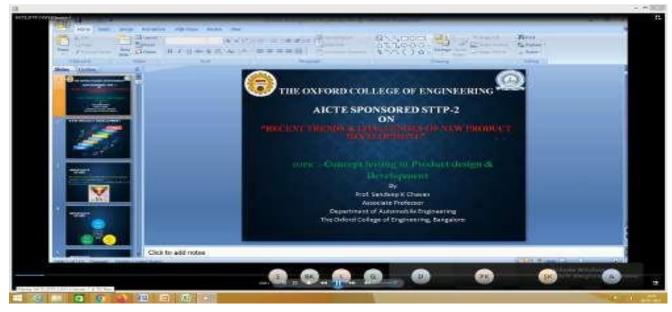
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Day-6 & Date: **17-10-2020** Technical session-**16**:

Topic: Concept Testing in Product Design and Development.

Resource Person: Mr. Sandeep K Chavan, Asso Professor, TOCE, Bengaluru.

Mr Sandeep K Chavan, Professor discussed in detail research has shown that 40% of new consumerproducts, 20% of new industrial products and 18% of new services related products havefailedcompletely as products. To avoid development of a new product that will not be a success in a marketand to minimize the costs of such a development a NPD Roadmap can be used, through a series oflogical steps, starting from the process of idea generation and ending at the launch of the product into amarket.







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Technical session-17:

Topic: Need for Newer Manufacturing Technologies for Product Developement.

Resource Person: Dr. M S Ganesha Prasad Dean, Prof & Head Dept. of Mechanical Engg, NHCE

Dr. Ganesh Prasad, Professor discussed theimprovements and influence of real-world performance, Computer aided engineering simulation allows engineers to see in to the future, predicting the consequence of any design change on the real-world performance of their products Deployed effectively, it can be used to improve our design through multiple iterations, providing data to guide thedesign process from its earliest stages, through to production and beyond.

#### Valedictory Function:

On the valedictory ceremony, Dr. Y Vijaya Kumar Principal, Sai Ram College of Engg., Bangalore jointhe session as a chief guest, along with Dr. R Nagaraj, Director of The Oxford Group of Institutions, Bangaluru, Dr. R J Anandhi, Vice Principal, The Oxford College of Engineering, Benagluru, Dr. Raju BR, FDP Coordinator, Professor and Head, Department of Automobile Engineering, Dr. N B Doddapattar.Prof & Head, Dept of Mechanical, TOCE, Banglore

Onthisoccasion, Dr. RNagaraj, Director of The Oxford Group of Institutions in his address, appreciates Dr. Raju B R, FDP Coordinator along with her team, for successful completion of theprogram. Dr. Raju B R, FDP Coordinator, welcomes, Dr. Y Vijaya Kumar Principal, Sai Ram College of Engg., chief guest of the valedictory ceremony and resource person of the session along with advisory board, media persons and all the dignitaries and delegates presented on valedictory session.

At the end, the valedictory session was concluded with a vote of thanks given by Mr. Sandeep Kumar KChavan, Assistant Professor, Dept, of Automobile Engg, in which he has been paid hir gratitude towardsall the dignitaries who has spared their time and come from a far distance places to share their expertisewith the participants. He has also thanked the media persons for their continuous coverage of the entireprogramme.

Nevertheless, he has given thanks to sponsoring body of this FDP i.e. AICTE with these words, "We arehighly thankful to the AICTE for providing financial assistance to organize this FDP in our campus andhope we will find the support in future also for organizing such kind of activities."



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#### Feedback from the Participants:

Thefeedbackoftheparticipantswasverypositiveandmotivationalfortheorganizers.Alltheparticipants appreciated the pick and drop facility, food, lodging and boarding arrangements of theinstitute. Moreover, all the resource persons were of repute in their respective fields and the knowledgeimparted by them was very useful in their forthcoming academic endeavors.



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The Oxford College of Engineering is one of the most prestigious institutions in Bengaluru that provides quality training in professional education in various streams of engineering (09 UG, 12 PG Programmes & 12 R&D Centers approved by VTU to carryout Ph.D. & M.Sc. Engg. programme.) The college has & M.Sc. Engg. programme.) The college has dedicated and highly qualified team of faculty who offer quality education to the students as per the academic scheme of VTU. The institution is well known for its Consultancy, Research and Development activities and departments have financial assistance from reputed state (VGST/KSCST/VTU) & Central (DRDO-NRB, DAE-BRNS, AICTE, ICMR, NIF) funding authorities to gater to the need of young researchers and students in ngineering and management domains.

The Department has well equipped laboratories, well qualified & experience staff. The department is sternally engaged in the academic enrichment of em to the real problems through Industrial Visits rojects & guidance through participation in various ompetitions. The department conducts various value dded programs & seminars to enhance students-ractical knowledge & employability. The Department tarted with an intake of 60 students along with PG ourse (M.Tech.) in Automotive Engineering with an

he vision of the department is to establish the lepartment as a renowned centre of excellence in the rea of scientific education, research with industrial uidance and exploration of the latest advances in the apidly changing field of Automobile Engineering.

The Course will be extremely beneficial to teachers esearch scholars and practicing engineers those who velopments taken place in Product design nufacturing in Automobile and Machine T

- es. OBJECTIVES onduct programs to build research, teaching and administration competence for holistic development
- sign and manufacturing environment. create awareness among participants about new Is and techniques used for Product Design &
- tomobile, Mechanical and other Engineering sciplines across the country on the latest trends in

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Prof. Sandeep K Chavan Asso, Professor Prof. Maruthi S B, Asst. Professor

- Prof. S.B. Desai, Asst. Professor
- Prof. Shivakumar, M.Asst. Professor

#### **Contact Details:**

Prof. Sandeep K Chavan Assoc, Professor Department of Automobile Engineering, The Oxford College of Engineering, Bangalore :skc.toce@gmail.com

:+91-8310364667

Prof. Maruthi S.B. Asst. Professor. Department of Automobile Engineering, The Oxford College of Engineering, Bangalore : maruthi.toce@gmail.com

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Content of the STTP:

- . Concept Initiation
- . Product Visualization & Styling
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- Engineering Ergonomics
- **Rapid Prototyping and Reverse** Engineering
- **Robust Design**
- . Finite Element Analysis in Product Design
- **Applications of PLM in Product** Development
- Patents & Intellectual Property Rights **Reliability Based Design**

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- . Dr. Suresha. & Professor, R&D Head NIE, Mysore.

through on-line mode using Microsoft Team. The participants have to register and link will be shared

Who can Attend:

Faculty members from the AICTE approved institutions, Research scholars and various Government Organizations, Universities and Industry professionals working in the related area can participate in the programme.

#### **Registration:**

Last date for Registration: 6th

No Registration Fee

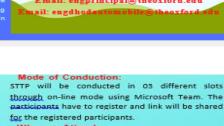
Participants have to register by using the below link

https://forms.gle/Hy3XCBVUtcdM8Pef7



A test shall be conducted by program evaluation committee at the end of the program & the ecertificates shall be issued to those participants who have attended the program & have qualified in the test

> IMPORTANT DATES: STTP -1: 12th -17th October, 2020 STTP -2: 2nd -7th November, 2020 STTP -3: 7th -12th December, 2020





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#### AICTE Sponsored

#### Short Term Training Programme "Recent Trends & Challenges for New Product Development"

Report On

AICTE Sponsored Short Term Training Programme on "Recent Trends & Challenges For NPD"

At

The Oxford College of Engineering, Bengaluru

#### STTP-3 FROM 23rdNovember to 28<sup>th</sup>November 2020

The AICTE STTP on **"Recent Trends & Challenges for New Product Development"** inaugurated by Dr. Manjunatha, principal, New HorizonCollege of Engineering, Bengaluru, as a Chiefguest, Dr. RajuBR, FDPCoordinator gave welcome speech to all the participants. Total 70 participants had attended the programme and gained the knowledge in the field of New Product Development in which 55 outside participants and 15 internal participants were attended. The sessions were handled by the various subject experts and details of talks are enclosed in the programme schedule. The Lab Session on Data science and Python was handled by Prof. Sandeep Kumar Chavan, Bengaluru on 02<sup>nd</sup>and 09<sup>h</sup>November 2020. The Valedictory function held on 09<sup>th</sup>November 2020 by DShankarPrakash, Technical Head, Royata Engineering Solutions, Bengaluru was the Chief guest and Dr. G. T Raju, Principal, The Oxford College of Engineering, Bengaluru was presided over the function. Dr. Raju BR, STTP Co-ordinator and Prof. SandeepKumarK Chavan, Event Cordinator, Departmentof Automobile Engineering, The Oxford College of Engineering, Bengaluru has delivered the vote ofthanks.

Date: 07<sup>th</sup>December, 2020Inauguration Session

Inaugurated byDr. Manjunatha, principal, New HorizonCollege of Engineering, Bengaluru, as aChief guest, followedby Key note address on Patents and Intellectual Property Rights.



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#### Short Term Training Programme "Recent Trends & Challenges for New Product Development"

Day-1 & Date: 07-12-2020

Technical Session-1:

Topic: Patents and Intellectual Property Rights

**Resource Person: Dr.** Manjunatha, **Principal, New Horizon College of Engineering, Bengaluru.** The first technical session was started with formal welcome note by Dr. Raju B R, FDP Co-ordinator, Professor and Head, Department of Automobile Engineering. The resource person of this session, **Dr.Dr.** Manjunatha, started his discussion with detail description Intellectual property rights are the rightsgiven to each and every person for the creations of new thin gs according to their minds. IPR usuallygive the creator a complete right over the use of

his/her creation for a certain period of time. "WinIndia, Win the World" The session was ended with the vote of thanks given by Dr. Raju B R, Professorand Head, Department of Automobile Engineering, The Oxford College of Engineering



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# PATENTS AND INTELLECTUAL PROPERTY RIGHTS

# **Copyright and Related Rights**

# **Ownership of Rights**

- Literary author
- Drama Dramatist
- Music Composer
- Artistic work Artist e.g. Painter, sculptor, architect
- Photograph Photographer
- Author of Computer Programme Person who causes the work to be created
- Cinematograph film producer
- Sound Recording producer

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#### Technical Session-2:

Topic: Manufacturing of Micro Product and Challenges

**Resource Person:** Dr. G L Samuel, Professor, Department of Mechanical Engineering, IIT, Madras Has given talk onThemodernmicro/nano technology (MNT)challengesrequirenewengineering knowledge and skills. In microengineering and micro-systems technologies most of theproduct developments are material or process centred. However, most ofthe available engineeringmaterials for MNTs and Micro- Electro-Mechanical systems (MEMS) processes will not be able tomeet the manufacturing demands for 3D high-aspect-rationano/micro structures and high precision. Thus, to broader the range of micro-engineering products the introduction of new specific materials isnecessary as well as study of the process capabilities that are reasonably compatible with the batch-fabrication

At the end of the session, Ms. Sandeep K Chavan, Assistant Professor, Dept, of Automobile Engg, delivered vote of thanks to the resource persons and all the participants



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**Communication Skill Training** 



Children's Education Society

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Belagavi & Approved by A.I.C.T.E. New Delhi, Accredited by NAAC & NBANew Delhi and Recognized by UGC

Hosur Road, Bommanahalli, Bangalore -560068

# **Department of Electrical & Electronics Engineering**

Organizing Communication Skills Traning



19<sup>th</sup> March 2021 by Dr Tharaka Rami Reddy Professor /Dept of MBA The Oxford College of Engineering

on

# Convener

Chief Patron Sri S.N.V.LNarasimha Raju President The Oxford Educational Institutions

Dr Bharath V S HOD/EEE The Oxford College of Engineering



Venue :6<sup>th</sup> Floor Seminar Hall Time :10AM

Prof. Nisha C Rani , Prof Resna S R Assistant Professor The Oxford College of Engineering



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#### **Report Communication Skill Training**

#### Date: 19.03.2021

The Oxford College of Engineering organized a one-day workshop on **"Communication Skill Training**" on19 March 2021 at 5th floor new building. The main objective of this programme is to aware the participants about improving one's ability to clearly transmit his or her message, improving the skills to understand better messages from other people and to witness actual applications and demonstration of the principles of effective communication. After that regarding various issues, problems being faced while working due to lack of communication and how to cope up with it is discussed by. Prof.Tharaka Rama Reddy, Department of MBA, The Oxford College of Engineering, Bengaluru resolved the queries asked by the employees. Discussion Session was quite interesting & helpful to resolve many doubts of the participants.38 participants attended the program.



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Sanitization of Surroundings During Covid Pandemic for Attenders and Sweepers

# **Children's Education Society**

THE OXFORD COLLEGE OF ENGINEERING

# **"SANITIZATION OF SURROUNDINGS during covid pandemic for ATTENDERS AND SWEEPERS"**

Academic Year 2020-20

Date : I5<sup>th</sup> Jan 2021 Venue: 6<sup>th</sup> Floor Seminar Hall

**Time : I0:00AM** 

**New Building, TOCE** 



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CHILDREN'S EDUCATION SOCIETY (REGD.) THE OXFORD COLLEGE OF ENGINEERING

BOMMANAHALLI, HOSUR ROAD, BANGALORE- 560068 Appioved by AICFE, New Delhi & Affiliated to VI'U Belagavi

Organizes a 1 day Add-on certificate program on AWARENESS PROGRAMME ON "SANITIZATION OF SURROUNDINGS DURING COVID PANDEMIC FOR ATTENDERS AND SWEEPERS"

> CHIEF PATRON Shri.S.N.V.L.NarasimhaRaju President, The Oxford Educational Institutions

### Conveners

Dr. B. R. RAJU Professor & HOD, Department of Automobile Dr. SHASHIDHARA M S Professor & HOD Department of MCA

### Faculty Coordinators

Prakash N

#### Shiyananad C G

Assistant Professors, Department of Civil Engineering

DATE	TIME	TOPIC	SPEAKER
15th January 2K21	10.00am To 12.30pm	Safe by taking some simple precautions, such as physical distancing, wearing a mask, keeping rooms well ventilated, avoiding crowds, cleaning your hands, and coughing into a bent elbow or tissue.	Dr. Raju HOD Department of Automobile The Oxford College of Engineering, Bengaluru
15# January 2K21	1.30pm To 3.00pm	Symptoms of COVID 19	Dr. M.S. Shashidhara Prof & HOD Department of MCA The Oxford College of Engineering, Bengaluru





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Report

The Oxford College of Engineering organized a one-day workshop on "Sanitization of surroundings during COVID Pandemic for Attenders and Sweepers " on 15 January 2021 at the Seminar Hall 5th floor New Building. The main objective of this programme is to aware them about Safe by taking some simple precautions, such as physical distancing, wearing a mask, keeping rooms well ventilated, avoiding crowds, cleaning hands, and coughing in to a bentelbowor tissue and Symptoms of COVID 19 with employees. After that regardingvarious issues, problems being faced while working and how to cope up with it.Dr. Raju, HOD Department of Automobile and Dr.M. SShashidhara Prof & HOD Department of MCA The Oxford College of Engineering, Bangalore The Oxford College of Engineering, Bengaluru resolved the queries asked by the employees. Discussion Session was quite in teresting & helpful to resolve many doubts of the participants.

PRINCIPAL Defend Callege of Engineering Bommentanali Motore Road Bengtiuru (200.068